

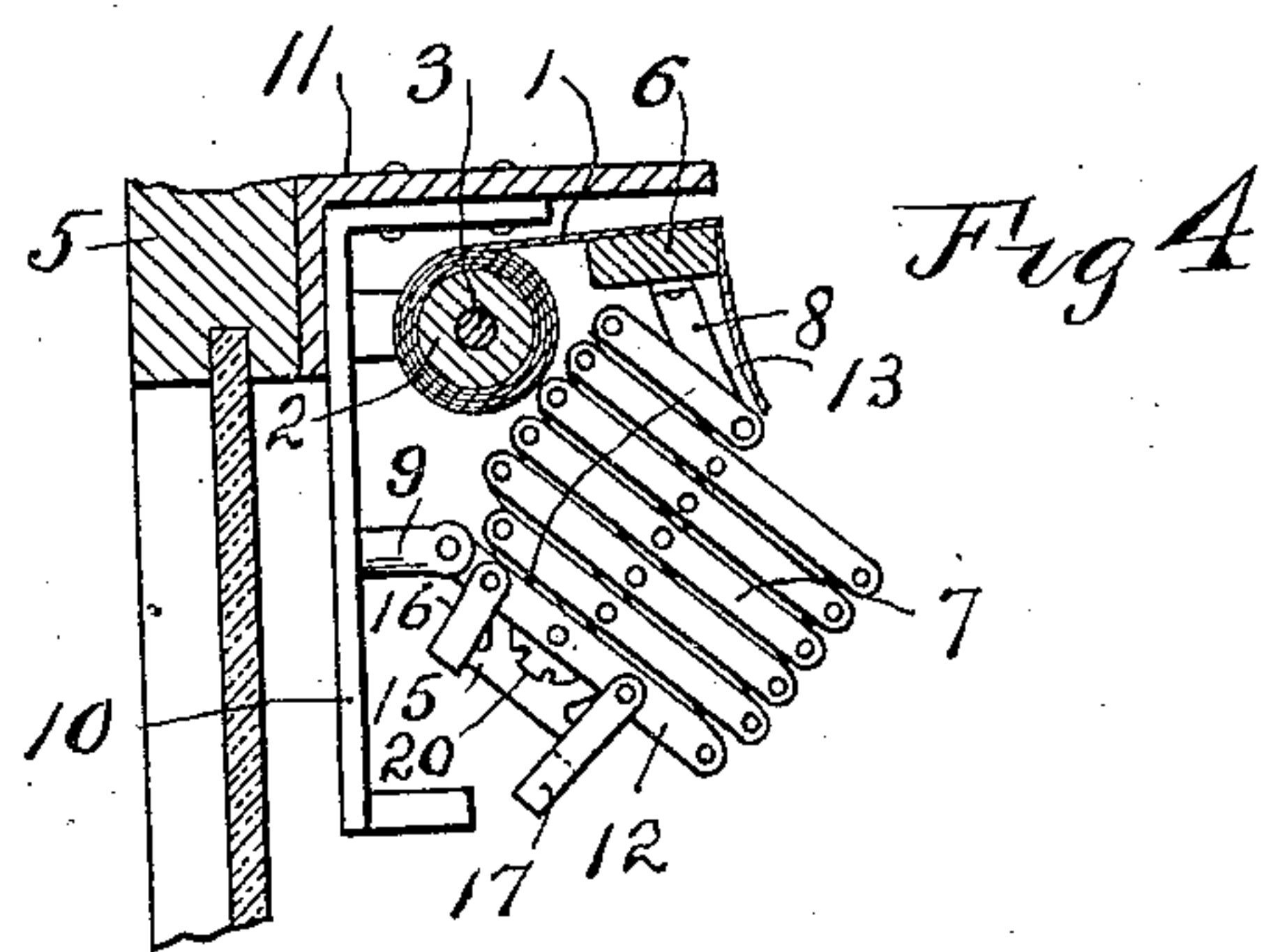
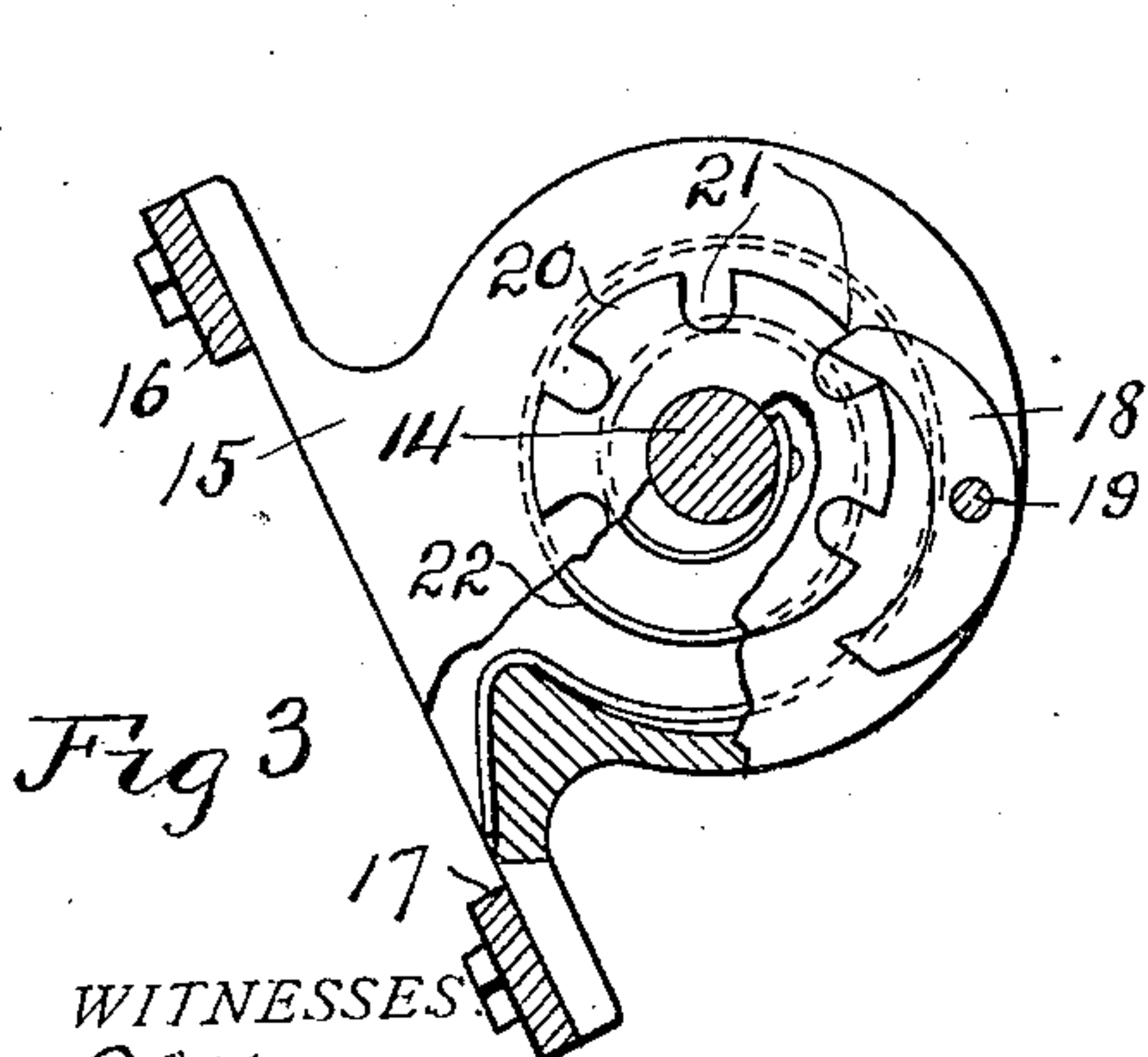
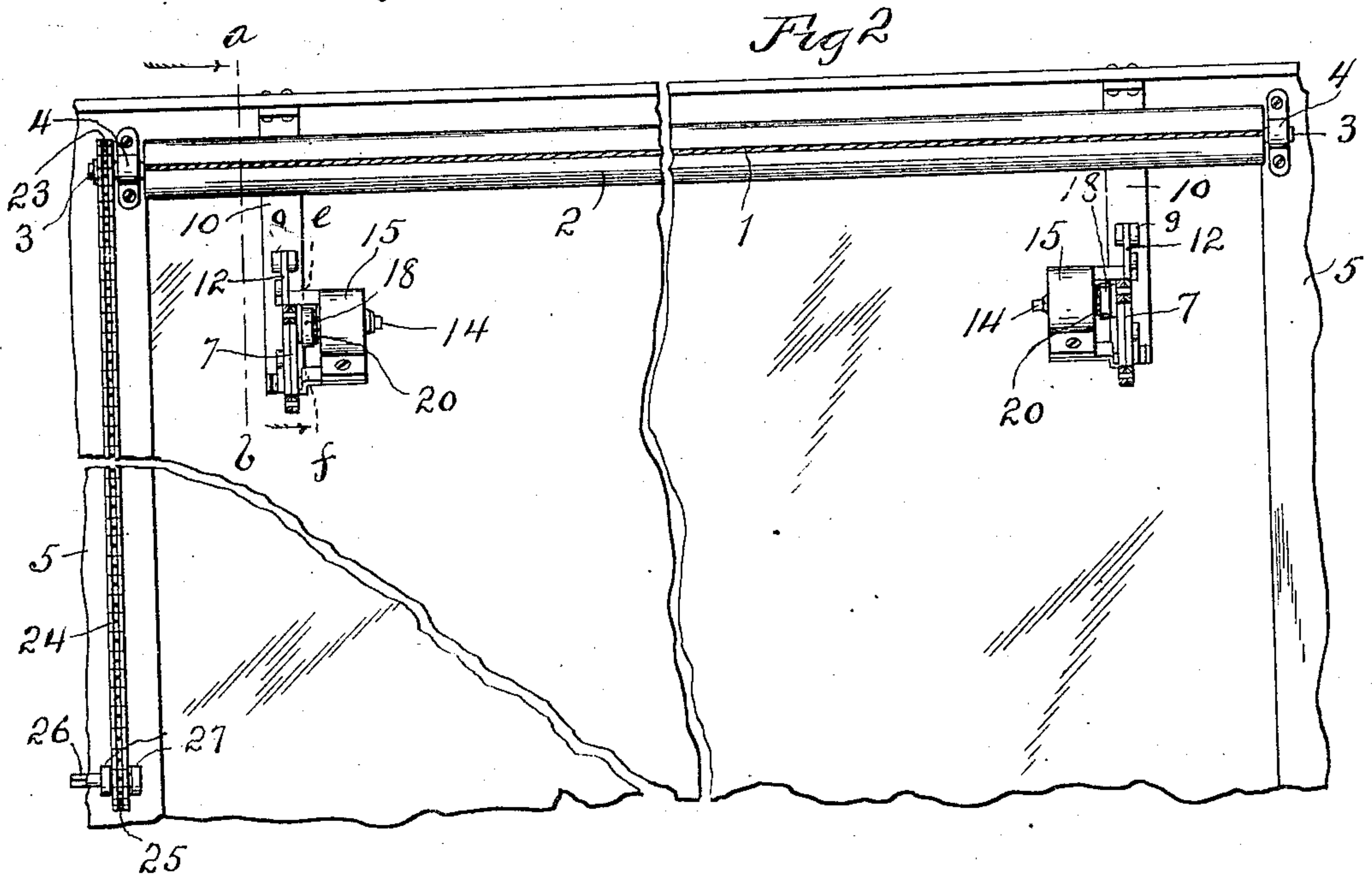
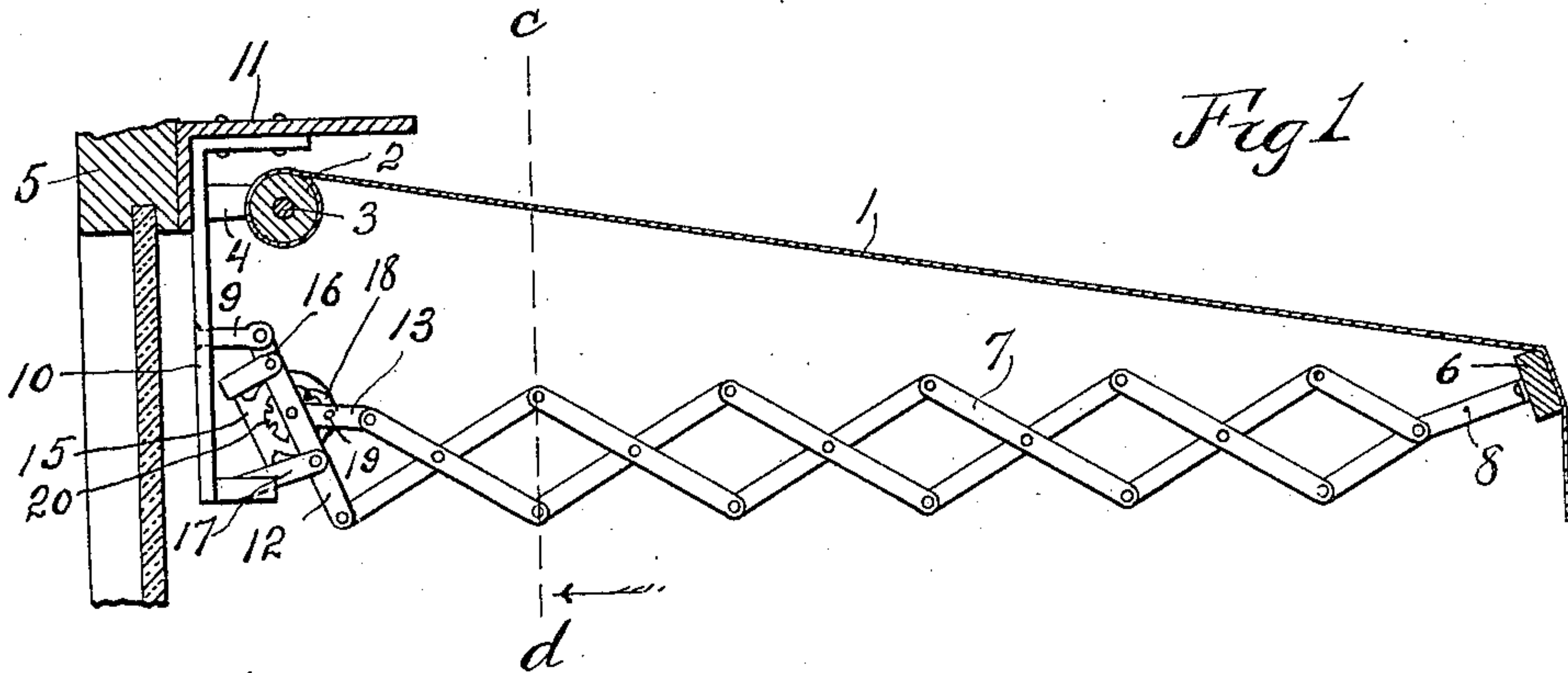
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AWNING.

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934,605.



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AWNING.

934,605.

Specification of Letters Patent. Patented Sept. 21, 1909.

Application filed April 26, 1909. Serial No. 492,181.

To all whom it may concern:

Be it known that I, CHARLES R. GOUDIE, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Awnings, of which the following is a specification.

My invention relates to improvements in awnings.

The object of my invention is to provide an awning which can be readily extended or retracted and which, when in the retracted position, will be stored in compact form.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawings illustrative of the preferred form of my invention—Figure 1 is a vertical sectional view, taken on the dotted line *a—b* of Fig. 2, and showing the awning in the extended position. Fig. 2 is a vertical sectional view taken on the dotted line *c—d* of Fig. 1. Fig. 3 is an enlarged vertical, sectional, detail view, partly broken away, taken on the dotted line *e—f* of Fig. 2. Fig. 4 is a vertical sectional view showing the awning in the retracted or closed position.

Similar characters of reference denote similar parts.

In the preferred form of my invention, the awning cover 1, which is preferably of canvas, has its inner edge secured to the periphery of a horizontal roller 2, which is secured upon a horizontal rotary shaft 3, supported in suitable bearings 4, which are secured to the building 5. The outer edge of the cover or canvas 1 is secured to a horizontal pole 6. One or more extensible frames, preferably of the lazy tong type, are employed to extend the awning cover. The extensible frames are each moved to the extended position by spring actuated means, the spring actuated means being provided with means for varying the spring tension to correspond to the work required to be done by the spring. Thus for large or heavy awnings, a greater spring power would be required to extend the awnings than would be required to extend a smaller or lighter awning. By providing means for increasing the spring tension, the weakening of the spring due to prolonged use may be overcome.

In the preferred form of my invention, one or more lazy tongs 7, of the ordinary type, are employed to extend the awning

cover 1. One of the outer members of each set of lazy tongs is secured to the awning pole 6. This outer member is denoted by 8. The inner end of one of the two inner lazy tong members is pivoted to a horizontal stud 9 which is secured to a bracket 10, which in turn is supported upon a right angled housing 11, the vertical side of which is secured to the building 5. The inner lazy tong member, which is pivoted to the stud 9 is denoted by 12, the other inner lazy tong member being denoted by 13. A rotary horizontal arbor 14, pivotally connects the lazy tong members 12 and 13 and extends through a casing 15, which is supported upon brackets 16 and 17, which in turn are secured to the member 12. A pawl 18 is pivotally mounted by means of a horizontal pin 19 upon the member 13. Rigidly secured upon the arbor 14, intermediate the member 12 and casing 15, is a ratchet wheel 20, which is provided with peripheral notches 21, adapted to receive a pawl 18 so as to normally lock the arbor 14 and lazy tong member 13 against movement relative to each other. A coil spring 22 encircles the arbor 14 to the periphery of which one end of the spring is secured, the other end of the spring being secured to the casing 15, as shown in Fig. 3. One end of the arbor 14 is preferably square to permit its being readily gripped by a wrench for the purpose of turning the arbor to increase or decrease the tension of the coil spring 22. To change the tension of the spring 22 the pawl 18 is swung so as to clear the ratchet wheel 20 when it is desired to rotate the arbor 14 in a direction such as to unwind and thus weaken the spring 22. To increase the spring tension it is but necessary to rotate the arbor 14 in the opposite direction to the position desired.

Any suitable means may be employed to rotate the roller 2 in a direction such that the lazy tongs 7 and awning cover 1 will be retracted. In the drawings, I have shown a mechanism commonly employed to effect this function. On the shaft 3 is secured a sprocket wheel 23 which is connected by a sprocket chain 24 with a sprocket wheel 25, which is rigidly secured on a rotary shaft 26, mounted in suitable bearings 27, secured to the building 5, at a convenient place below the shaft 3. The shaft 26 has one end squared to permit its being gripped by a suitable wrench or crank. Upon turning the

shaft 26 in the proper direction the shaft 3 is rotated so as to wind the awning cover 1 upon the roller 2, thereby retracting the awning pole 6 to the position shown in Fig. 4, in which position the housing 11 will cover the retracted cover 1 and pole 6. At the same time the lazy tongs 7 will be compressed into compact form, as shown in Fig. 4. The lazy tong member 12 being pivoted to swing vertically on the stud 9, which is below the shaft 3, permits the various members of the lazy tongs to assume the position shown in Fig. 4.

To extend the awning it is but necessary to rotate the shaft 26 in a direction such that the awning cover 1 will be unwound from the roller 2. The springs 22 will rotate the arbors 14 respectively in a direction such that the inner members 12 and 13 will be swung to the extended position shown in Fig. 1, thereby causing the other members of the lazy tongs to also be moved to the extended position, in which position the awning cover 1 will be tightly stretched.

While I have illustrated and described the preferred form of my invention, I do not limit the invention to the precise structure illustrated and described, as various modifications within the scope of the appended claims, may be made without departing from the spirit of my invention.

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

1. The combination with an awning cover, of lazy tongs connected thereto for extending the cover when the tongs are extended, an arbor pivotally connecting two members of the lazy tongs, a coil spring having one end secured to said arbor and adapted to be wound thereon, means supported by one of said lazy tong members for supporting the opposite end of the spring, and means for moving the other of said lazy tong members to the extended position when the arbor is rotated by the spring.

2. The combination with an awning cover, of lazy tongs connected thereto for extending the cover when the tongs are extended, a roller upon which the awning cover is adapted to be wound, means for rotating said roller, a rotary arbor pivotally connecting two of the lazy tong members, a coil spring having one end secured to said arbor and the other to one of said two members, a pawl carried by the other of said two members, and a ratchet wheel engaged by the pawl and secured upon said arbor, the tension of said spring through the intermediacy of the arbor, pawl and ratchet wheel normally relatively moving said two lazy tong members to the extended position.

3. In an awning, the combination with a pair of lazy tong members, of an arbor pivotally connecting said members, a coil spring having one end secured to said arbor and the other end secured to one of said lazy tong members, and means connecting said arbor and the other lazy tong members by which the members are relatively moved to the extended position when the spring rotates said arbor.

4. In an awning, the combination with a pair of lazy tong members, of an arbor pivotally connecting said members, a coil spring having one end secured to said arbor and the other end secured to one of said two members, a pawl carried by the other of said two members, and a ratchet wheel engaged by the pawl and secured to said arbor, the tension of said spring through the intermediacy of the arbor, pawl and ratchet wheel normally relatively moving said two lazy tong members to the extended position.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

CHARLES R. GOUDIE.

Witnesses:

E. B. HOUSE,
J. C. IRWIN.