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AWNING ARM.

APPLICATION FILED DEC. 14, 1914.

1,258,977.

Patented Mar. 12, 1918.

2 SHEETS—SHEET 1.

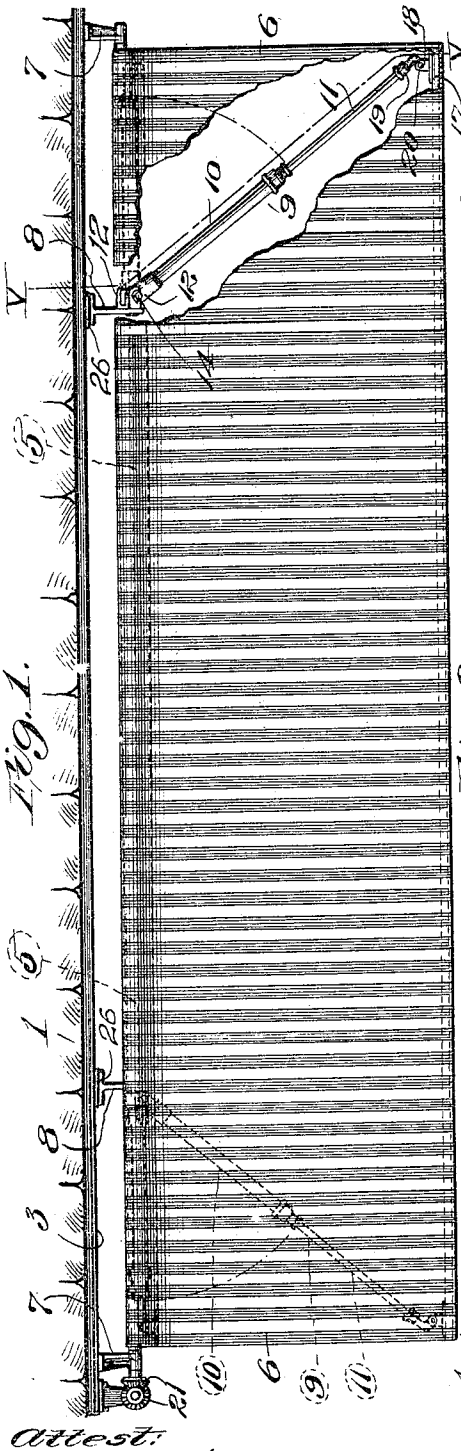


Fig. 1.

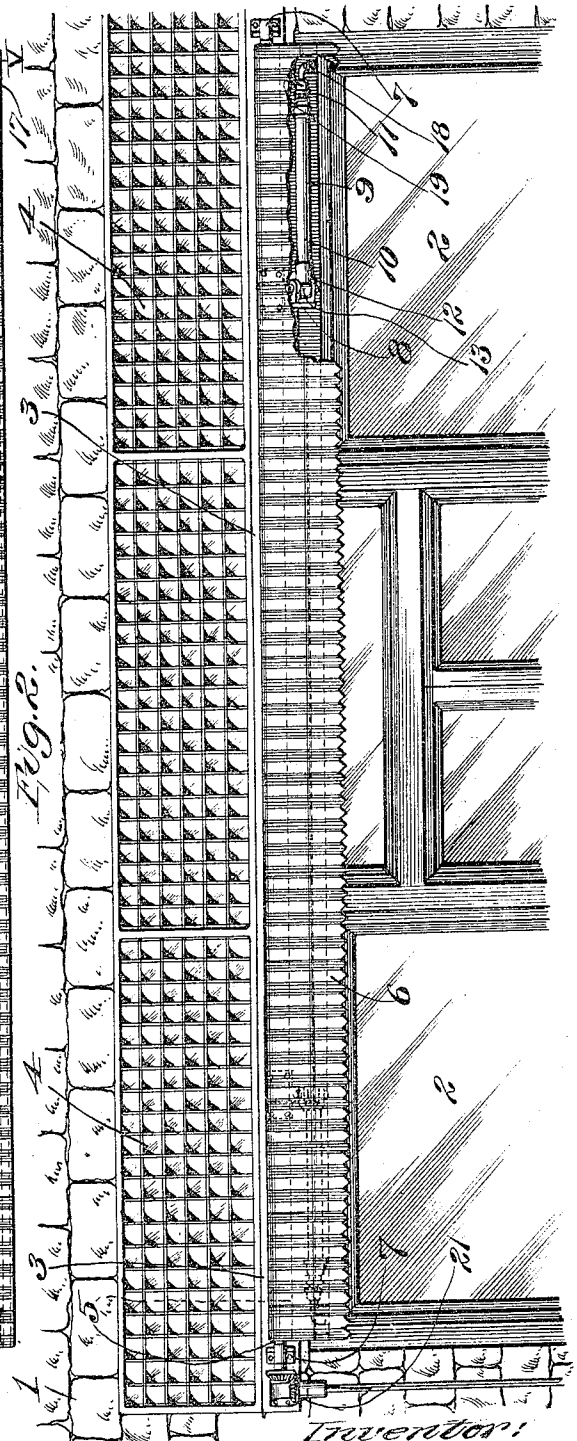


Fig. 2.

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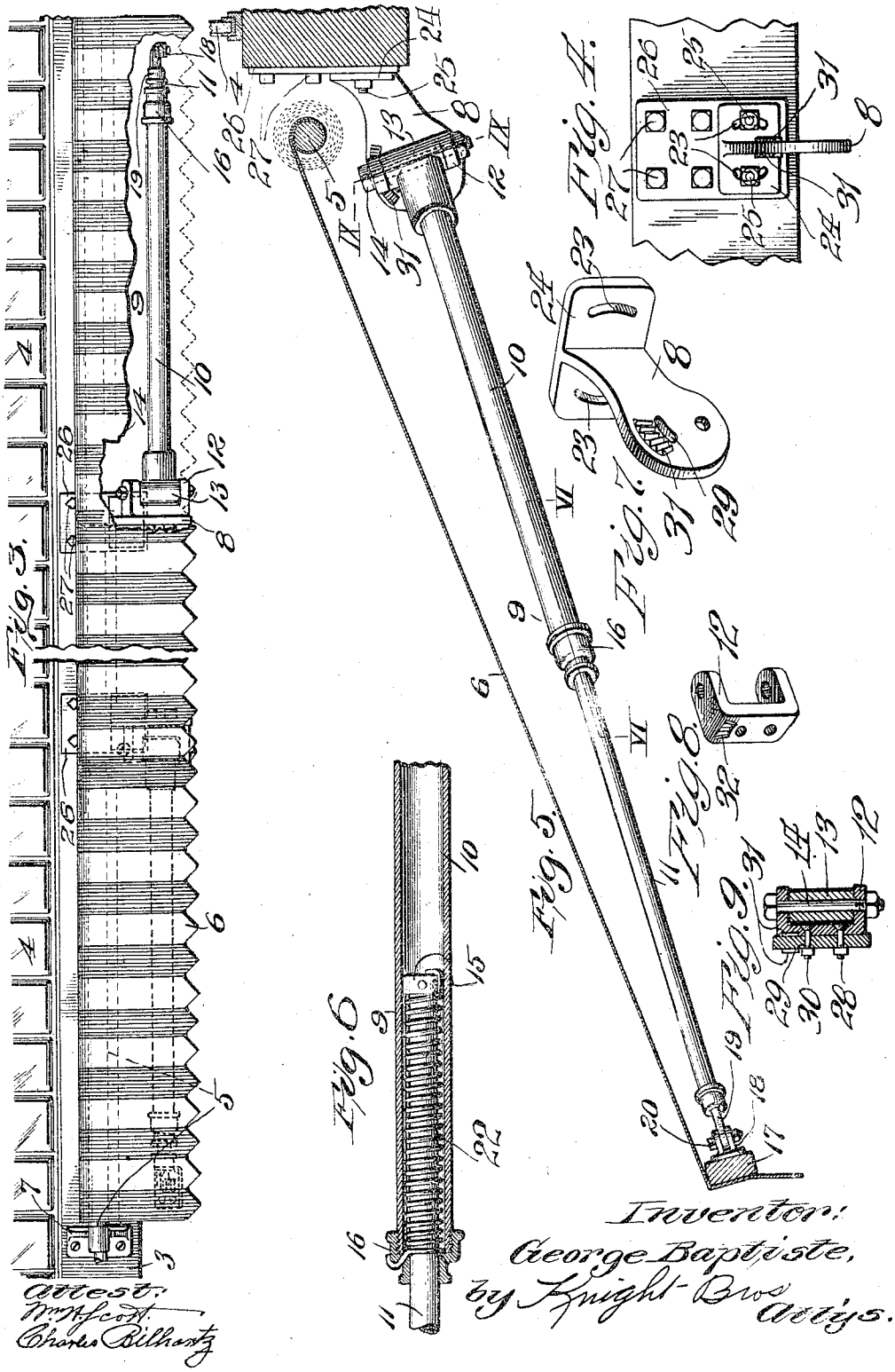
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UNITED STATES PATENT OFFICE.

GEORGE BAPTISTE, OF ST. LOUIS, MISSOURI.

AWNING-ARM.

1,258,977. Specification of Letters Patent. Patented Mar. 12, 1918.

Application filed December 14, 1914. Serial No. 877,017.

To all whom it may concern:

Be it known that I, GEORGE BAPTISTE, a citizen of the United States of America, and a resident of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Awning-Arms, of which the following is a specification.

The primary object of this invention is to provide an awning arm of improved character which will fold laterally with the awning pole and awning roll.

Another object is to provide an awning with swingingly mounted telescoping supporting arms.

Other and further objects will appear in the specification, and be specifically pointed out in the appended claims, reference being had to the accompanying drawings exemplifying the invention, and in which,

Figure 1 is a plan view of an awning in extended position, a portion of the awning being broken away showing one of the supporting arms in full lines.

Fig. 2 is a front elevation of a portion of a building showing the awning rolled up, a portion of the awning being broken away showing one of the arms in full lines and in folded position.

Fig. 3 is an enlarged front elevation, similar to Fig. 2, showing the supporting arms in folded positions.

Fig. 4 is an enlarged front elevation of one of the supporting brackets.

Fig. 5 is an enlarged end elevation, partly in section, of one of the supporting arms taken on the line V—V, Fig. 1.

Fig. 6 is an enlarged longitudinal section taken on the line VI—VI, Fig. 5.

Fig. 7 is an enlarged perspective view of one of the supporting brackets ready to be attached to the supporting plate.

Fig. 8 is an enlarged perspective view of one of the adjustable yokes.

Fig. 9 is an enlarged section taken on the line IX—IX, Fig. 5.

Referring to the drawings: 1 designates a building wall having show windows 2. Mounted above said windows is a sill 3. Located above said sill are the transom lights 4. The top of the awning on which this improved supporting arm is to be used is adapted to be mounted on the roller 5 so that when the awning 6, which is mounted on the roller, is not in use, it will lie adjacent the sills 3 and between the windows 2 and transom lights 4, so as not to obscure the light. The roller 5 is supported on the sill 3 by brackets 7. The brackets 7 are preferably so located on the sill 3 as to engage the awning roller 5 adjacent the side edges of the awning 6.

Secured to the sill 3 at a distance in from the brackets 7 are arm supporting brackets 8, said brackets being preferably adjustable as shown more clearly in Figs. 4 and 5. Pivotally mounted to each bracket 8 is a telescoping arm 9, each of said arms comprising an outer tubular member 10 and an inner tubular member 11. Secured to one end of each bracket 8 is an adjustable yoke 12. Each of said yokes engages over the bearing portion 13 of each member 10. A bolt 14 secures each arm to each yoke 12.

The member 11 of each arm 9 is slidably mounted in the member 10. In order to prevent binding of the sliding engagement of the members 11 with the members 10, a collar 15 is mounted adjacent one end of each member 11. These collars will engage the inside wall of the members 10. In order to prevent the members 11 from being disengaged from the members 10, reducers 16 are mounted in one end of each member 10.

Secured to the front portion of the awning 6 is an awning pole 17. Mounted on said pole adjacent the ends thereof are a pair of brackets 18. These brackets are pivotally secured to the forward ends 19 of the members 11 of the arms 9 by the bolts 20.

In securing this improved type of an awning arm to a building and to an awning pole, from an inspection of Fig. 1, it will be seen that the arm supporting brackets are placed nearer together than are the brackets 18 which are secured to the awn-

ing pole 17. When a pair of this improved type of awning arm is secured to a pair of brackets 8 and 18, and the awning is extended, the gearing 21 is manipulated so as to roll the awning on the roller 5. The members 11 of the arms 9 will begin to slide into the members 10 as the awning pole 17 is being carried toward the building. The arms 9 will be reduced in length causing the arms to swing on the pivots 14 of the brackets 8 so that when the awning pole is eventually brought up adjacent the awning roller, the pivotal connections 14 and 18 of the arms 9 will be in approximate alinement with each other.

This type of awning arm is adapted to be on an incline downwardly from the building so that when the awning is rolled off the roller, the arms will begin to swing on the pivots 14, and the weight of the awning pole will cause the members 11 to slide outwardly from the members 10. If it is desired the supporting brackets 8 can be built at a greater distance apart than the awning pole brackets, the method of operation being the same as just related.

If it is desired to shorten the length of this improved type of arm when the parts thereof are telescoped, more sections of shorter length are used. This improved type of awning is inexpensive of manufacture, simple in operation, and very strong and durable.

To insure positive outward movement of the members 11 from the members 10 when the awning is rolled off the roller as shown in Fig. 6, a coil spring 22 is mounted over the inner end of each of the telescoping members 11, said spring at one end being secured to the reducer 16, and at the other end to the collar 15. In said Fig. 6, the telescoping arm 9 has been lengthened by reason of the sliding relation between the members 10 and 11. In this position, the spring 22 is in its inactive position. When the awning has been rolled, the spring 22 will become stretched and under tension so that when the awning is being unrolled, the members 11 would be forced outwardly from the members 10 by the coil spring 22.

The type of adjustable supporting bracket 8 and adjustable yoke 12 shown are advantageous to lateral folding arms inasmuch as the proper swinging inclination of the arms 9 has to be found at the time of the erecting of said arms so that said arms will give the proper swing in accordance with the pitch of the awning. In this connection, a pair of radial slots 23' are formed in the base portion 24 of each of the brackets 8, said slots engaging over bolts 25 which are carried by the supporting plates 26, said plates 26 being first secured to the building by the lag screws 27. Each of the yokes 12 is pivotally secured to each bracket 8 by a bolt 28, and to provide for the adjusting of said yokes, a radial slot 29 is formed in each of said brackets 8, there being a bolt 30 carried by each of said yokes passing through each of said slots 29 for clamping said yokes to said brackets. To provide means for accurately adjusting said yokes on said brackets, radially arranged teeth 31 are formed on each side of the extending portion of said brackets. These teeth 31 are adapted to mesh with radially arranged teeth 32 which are formed on each yoke 12.

Attention is called to the construction of the brackets 8 and yokes 12, which are of such design that only one type of bracket and yoke is necessary, as either one will serve as right or left.

What I claim is:

1. In a support for an awning, a pair of telescoping arms, a bracket for pivotally supporting one end of each of said arms, the opposite ends of said arms being pivotally secured to an awning pole, said pivotal mountings of said pole being at a greater distance apart than said brackets, and a resilient member adapted to coöperate with one of said arms for moving one of the telescoping sections thereof.

2. In a support for an awning, a pair of telescoping arms, a bracket for pivotally supporting one end of each of said arms, the opposite ends of said arms being pivotally secured to an awning pole, said pivotal mountings on said pole being at a greater distance apart than said brackets, said pole when moved toward said brackets adapted to telescope said arms.

3. In combination, an awning roller, an awning for said roller, an awning pole for supporting said awning, and a support for said pole, said support comprising a plurality of sections telescopingly related to one another, said support being pivotally secured at one end adjacent and beneath said roller and pivotally secured at its opposite end to said pole, said pole when moved to a position adjacent said roller causing the sections of said support to telescope, thereby moving said support to a parallelling position relative to said roller and said pole.

4. In combination, an awning roller, an awning for said roller, an awning pole for supporting said awning, and a support for said pole, said support comprising a plurality of sections telescopingly related to each other, said support being pivotally secured at one end adjacent and beneath said roller, and pivotally secured at its opposite end to said pole, said sections of said support providing means for arranging said support parallel with said roller and said pole when said pole is in a position adjacent said roller, said support adapted to be

arranged diagonally of said roller and said pole, when said pole is moved to an extended position.

5. An awning arm comprising telescoping sections, a pivotal support for one of said sections, an awning support swingingly secured to another of said sections, said sections adapted to slide relative to each other when said awning support is moved, said arm and said support adapted to be arranged parallel to each other when said sections of said arm are telescoped.

GEORGE BAPTISTE.

In the presence of—
H. G. FLETCHER,
M. C. HAMMON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."