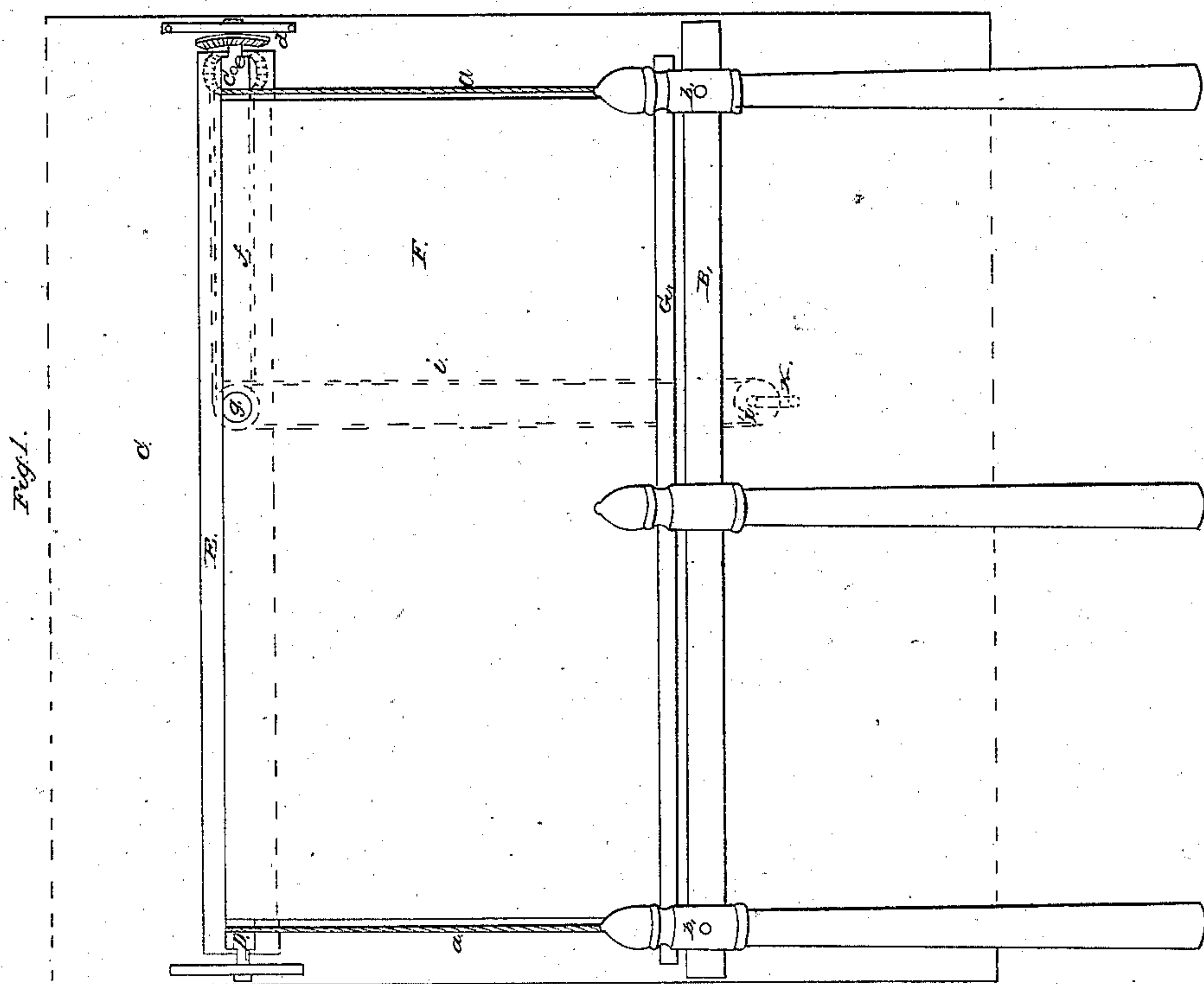
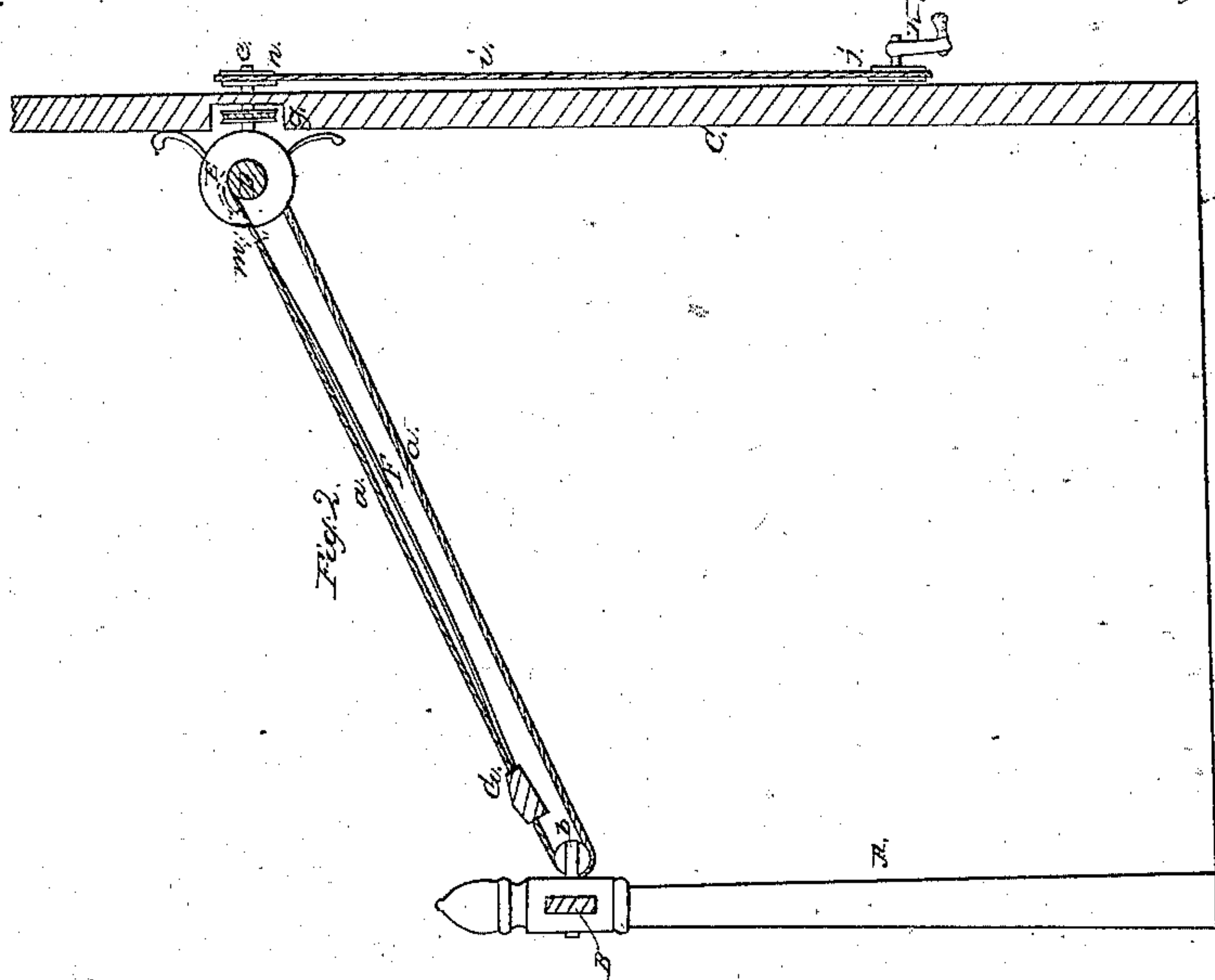


W. H. Bakewell,

Auming.

N^o 8817.

Patented Mar. 23, 1852.



UNITED STATES PATENT OFFICE.

WILLIAM H. BAKEWELL, OF NEW YORK, N. Y.

SHOP-AWNING.

Specification of Letters Patent No. 8,817, dated March 23, 1852.

To all whom it may concern:

Be it known that I, WILLIAM H. BAKEWELL, of the city, county, and State of New York, have invented a new and useful Improvement in Operating and Constructing Awnings; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a front view, and Fig. 2, is an end or side view of the awning and apparatus.

The same letters indicate like parts in all the figures.

The nature of my improvement consists in the method of rolling up, and unrolling an awning from the inside of the building by the construction and operation of shafts, cords, pulleys, &c. (or its equivalent) passing through the wall or front of building. Secondly, in protecting the awning from the weather by means of a cylindrical sheathing (or covering) and the slat on the lower edge of the awning.

The following is a full description of the apparatus and awning:

(A) are posts made in the usual way.

(B) is a bar passing through and bracing the posts.

(C) is the front of the building to which the awning is attached.

(D) is a roller the length to suit the width of the awning or front of building, and is supported by brackets or otherwise.

(E) is a cylindrical sheathing made sufficiently large to receive the roller and awning, and having an opening lengthwise to admit the awning, the ends of which fit smoothly to and resting on the axles of the roller.

(F) is the awning attached to the roller *e*.

(G) is a slat which is attached to the lower edge of the awning, and its edges made somewhat beveling.

(*a*) are cords or ropes. One end of each is fastened to the upper edge of the slat, and passing over the roller at the front of the building, and thence passing back and through the pulleys, *b*, (which are firmly secured to the posts or bar) and attached

to the lower edge of said slat. (*c* and *d*) are beveled cog wheels working into each other, the wheel, *d*, being on the roller D, and the wheel, *c*, on the shaft, *e*, which passes through the wall and having on a pulley, *h*, from which passes a cord, *i*, to the pulley, *j*, to which is attached a crank, *k*. But should the crank be removed at a distance I have another shaft with two pulleys, *g* and *h*, and the cord, *i*, passing to the pulley, *j*, and crank *k*, as before as is shown in Figs. 1 and 2. The pulleys, *g*, *g*, and cord, *f*, may be recessed into the wall or otherwise.

The following is the operation and effects of the improvement: When crank motion is given to the pulleys, cog wheels, &c., the roller D, to which one edge of the awning is attached, (the other edge being attached to the slat G,) is revolved either way by the cords, *a*, they having both ends attached to the slat, and passing over the roller and through the pulleys, *b* does produce the same effect as an endless belt, when the roller is turned one way the cords, *a* will draw down the awning to the posts, when turned the opposite way the roller will draw and wind up the awning until the slat, G, shall be pressed tight into the opening, M, as is shown in Fig. 2, thereby perfectly securing the awning from dew, &c.

It will be perceived by this method in constructing and operating awnings, the time and labor that will be saved, aside fifty per cent. in the wear and tear in putting it up and taking it down, and is often the case in consequence of a sudden storm the entire loss of the awning for the want of a few moments' time, also the unpleasantness to the operator in being exposed to the weather, &c. But by this improvement one person can roll up an awning in one minute's time or less. Secondly the method of securing an awning where it is positively known it will be kept perfectly dry and safe must be an advantage worthy of consideration.

Having thus fully described my invention and improvement I wish it to be known that I do not claim the pulleys, cords, cog wheels, &c., neither do I claim the inclosing of an

awning, as that has already been done in many different ways to my knowledge.

What I do claim as my invention and desire to secure by Letters Patent is—

5 The method of protecting the awning by the construction and arrangement of the cylindrical sheathing (or covering) in com-

bination with the slat, in the manner, and for the purpose as herein described and fully set forth.

WM. H. BAKEWELL.

Witnesses:

H. O. SHAROT,

C. W. KIPP.