(No Model.)

L. W. STOKELY.

WIRE STRETCHER.

No. 485,066. Patented Oct. 25, 1892.

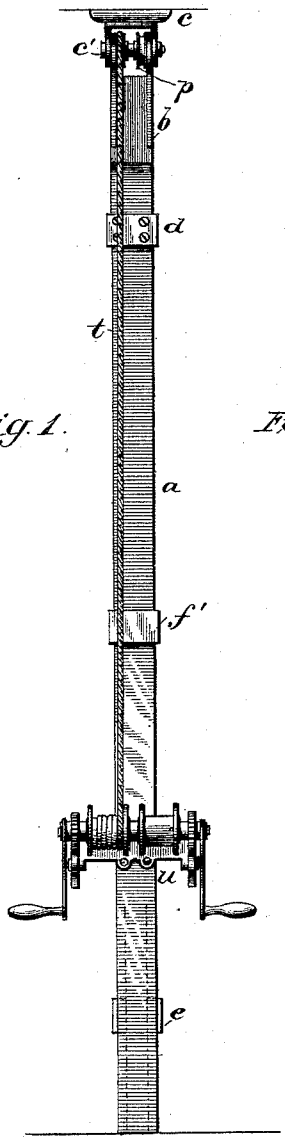

Fig. 1.

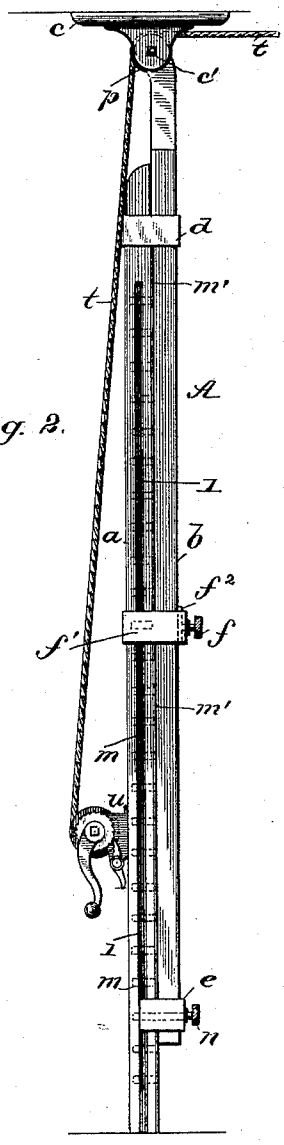

Fig. 2.

WITNESSES:

Fred G. Dieterich

P. B. Turpin

INVENTOR:

Lewis W. Stokely.

BY Munn & Co

ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LEWIS W. STOKELY, OF MEMPHIS, TENNESSEE, ASSIGNOR OF ONE-HALF TO SAMUEL T. CARNES, OF SAME PLACE.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 485,066, dated October 25, 1892.

Application filed July 21, 1892. Serial No. 440,846. (No model.)

To all whom it may concern:

Be it known that I, LEWIS W. STOKELY, residing at Memphis, Shelby county, and State of Tennessee, have invented a new and useful Improvement in Wire-Stretchers, of which the following is a specification.

My invention is an improved wire-stretcher intended especially for stretching electric and other wires in buildings; and it consists in the novel constructions and combinations of parts hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a face view, and Fig. 2 is an edge view, of my improvement as in use.

My improved stretcher comprises an extensible standard A, formed of members *a* and *b*, arranged to slide one upon the other. The member *a* is formed with grooves *l* in its opposite sides, and also has sockets or openings *m* in its face, such openings being reinforced by a plate *m'*, perforated in register with the sockets *m*. The member *b* is lapped and slides against the member *a*. A box-loop *d* is secured to the member *a* near its upper end and embraces the member *b*. A box-loop *e* is secured to the member *b* near its lower end and has its arms provided with lugs sliding in grooves *l*. A pin or bolt *n* is passed through the box *e* and member *b* into the proper one of sockets *m* and serves to lock parts *a* and *b* from independent endwise movement.

Between the loops *d e* a loop *f'* embraces members *a b*, and a screw *f* turns through such loop *f'* and clamps a plate f^2 against the standard, such plate f^2 serving to prevent the bruising of the standard. By the described construction it will be seen that the standard can be adjusted to suit the height of the ceiling.

A power mechanism is secured to the standard for straining the wire. This is preferably a windlass, having its supporting-bracket *u* secured to the lower member of the standard, so the windlass will always be at the same height no matter what the adjustment of the standard. It may be preferred to provide two windlasses, as shown, or more, each having a hand-crank and detent mechanism. A cord *t* connects with the windlass and extends up over a guide-pulley *p*, secured to the upper member *b* of the standard, and in operation such cord is connected with the wire to be stretched.

At the upper end of the standard I provide a bearing *c* to rest against the ceiling. This bearing is preferably connected adjustably with the standard. In carrying out this construction I provide a shaft *c'*, forming a hinge connection between the bearing and the standard, and I also support the pulley or pulleys *p* on said shaft *c'*.

The operation is simple and will be readily understood. In adjusting the stretcher for use the bearing *c* may be placed against the ceiling and members *a b* adjusted upon one another until when standing at a slight angle to the vertical the lower end of the standard will rest against the floor and the upper bearing against the ceiling. The pin *n* may then be adjusted into the nearest hole, when a slight tap at the lower end of the standard will set the same vertically and wedge it firmly between the floor and ceiling, when the stretching operation may proceed, as will be readily understood.

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

1. A wire-stretcher for use in buildings, consisting of an extensible standard adapted to be clamped between the ceiling and floor and power mechanism connected with said standard, whereby to strain the wire, substantially as and for the purposes set forth.

2. A wire-stretcher for use in buildings, comprising an extensible standard having its upper member provided with an adjustable bearing formed to rest against the ceiling and power mechanism connected with said standard to strain the wire, substantially as set forth.

3. An improved wire-stretcher comprising an extensible standard having its upper member provided with an adjustable bearing formed to rest against the ceiling, a windlass connected with said standard, and a guide-pulley, substantially as set forth.

4. A wire-stretcher for use in buildings, having a standard adapted to be clamped between the floor and ceiling and provided with a bearing to rest against the ceiling, said bearing being pivotally connected with the upper

end of the standard, and power mechanism whereby to strain the wire, substantially as set forth.

5. In a wire-stretcher, substantially as described, the combination, with the standard and the bearing, of the shaft forming a hinge-like connection between said parts and the guide-pulley on said shaft, substantially as set forth.

6. In a wire-stretcher for use in houses, the combination of the extensible standard formed in a plurality of members, a guide-pulley secured to the upper member, and a windlass secured to the lower member, substantially as set forth.

7. The improved wire-stretcher for use in buildings, comprising the extensible standard formed of members adjustable substantially as described, the windlass secured to the lower member, the bearing, a shaft forming a hinge connection between said bearing and the upper standard member, and the guide-pulley supported on the said shaft, substantially as set forth.

8. The improved wire-stretcher herein described, consisting of the extensible standard formed with members *a* and *b*, the member *a*, having grooves *l* and sockets *m*, a box-loop *d*, secured to the upper end of the member *a* and embracing the member *b*, the box-loop *e*, secured to the member *b* and having lugs entering the grooves *l*, the intermediate box-loop *f'*, having a screw *f*, the pin *n* to enter the sockets *m*, the adjustable bearing *c* at the upper end of the member *b*, the windlass, and guide-pulley, all substantially as and for the purposes set forth.

LEWIS W. STOKELY.

Witnesses:
A. M. JOHNSON,
WILL SLATER.