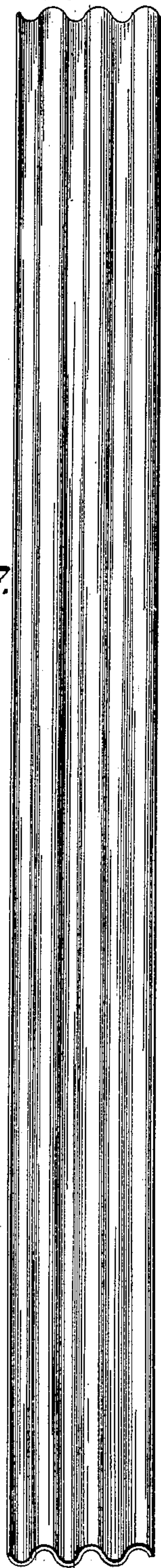
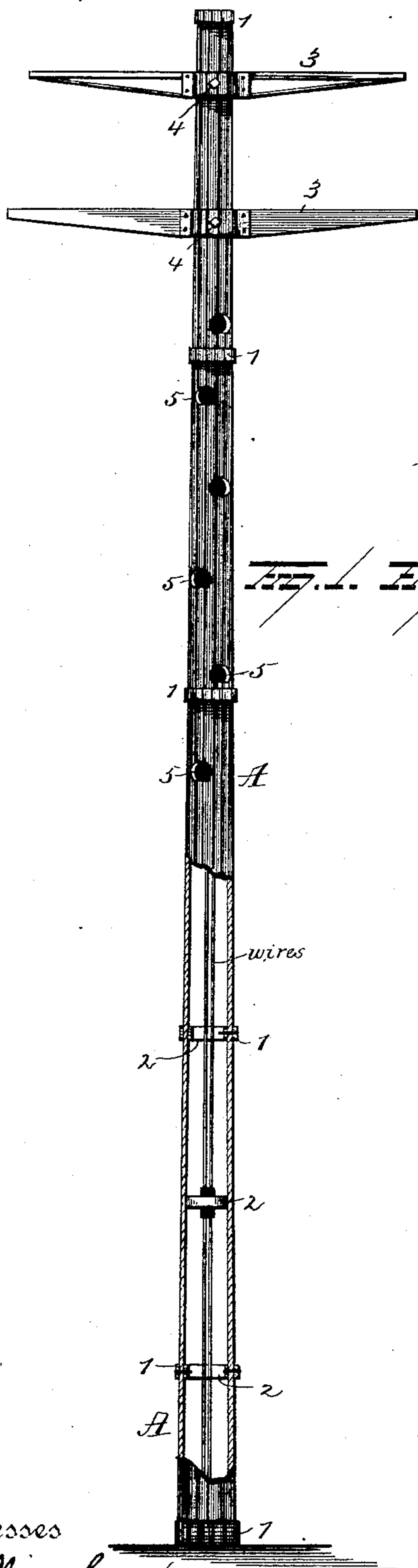


(No Model.)

C. M. BRUSH.  
TELEGRAPH POLE.

No. 432,858.

Patented July 22, 1890.



Witnesses  
*E. W. Mudgett*  
*G. J. Downing*

By his Attorney

Inventor  
*Charles M. Brush*  
*Vernon E. Hodges*

# UNITED STATES PATENT OFFICE.

CHARLES M. BRUSH, OF GREAT BEND, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO CORNELIUS J. WALDRON, OF SAME PLACE.

## TELEGRAPH-POLE.

SPECIFICATION forming part of Letters Patent No. 432,858, dated July 22, 1890.

Application filed February 15, 1890. Serial No. 340,543. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES M. BRUSH, of Great Bend, in the county of Susquehanna and State of Pennsylvania, have invented certain new and useful Improvements in Telegraph-Poles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in telegraph-poles, the object being to provide an economical and durable pole for telegraph and other wires; and it consists of corrugated metal rolled up into tubular shape and braced and held together by rings or bands inside and outside, in connection with cross-arms, braces, and set-screws for holding said arms in place upon the pole.

It further consists in certain novel features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of the completed pole, and Fig. 2 is a view of the blank out of which the pole is formed.

A represents the pole. It is made of corrugated metal first cut out in substantially the shape of the blank shown in Fig. 2, and then rolled up into tubular shape, as illustrated in Fig. 1, either into cylindrical or tapering form. The pole is retained in this shape by bands 1 1, and these are made to fit the outer surface of the pole. Rings 2 2 are placed inside the pole at greater or less intervals, as found necessary to stiffen and brace the pole. The arms 3 3, which support the telegraph-wires, are held in place upon the pole by set-screws 4 4. These arms are securely braced, as shown, and any number of them may be held on the pole to suit the requirements.

The pole is provided with holes 5 5, by means of which it may be easily climbed when necessary to get to the wires. The poles may be braced by placing props or braces against one or more of the bands.

It is sometimes desirable to use the poles to support electric lights. When thus used, the lamps are placed on the upper ends of the poles, and instead of overhead wires underground wires are employed. These are passed up inside of the pole, and the inside rings 2 2

are furnished with glass insulators, which constitute an absolute protection against an electric shock being received by one coming in contact with the poles. Such an improvement as my invention contemplates will relieve a long-felt necessity in this particular, and a great many fatal accidents can be prevented by its use.

For convenience in shipping the poles they are usually sent in the blank and rolled up into tubular shape as needed for use. The inside rings are preferably held on the plates by means of one rivet, and when the iron is rolled into shape the bands are put on to keep the pole in shape.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

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

1. A telegraph-pole consisting of a blank of corrugated metal rolled into tubular shape and having rings secured inside and bands outside to brace and hold the pole in shape, substantially as set forth.

2. A telegraph-pole formed of sheet metal rolled into tubular shape and having rings secured inside and bands outside to brace and hold the pole in shape, and insulators located at intervals inside the pole for holding the wires out of contact with the pole, substantially as set forth.

3. A telegraph-pole consisting of a corrugated-metal blank having holes therein, said blank adapted to be rolled into tubular shape, substantially as set forth.

4. The combination, with a corrugated-metal pole having perforations therein, and rings inside and bands outside to brace the pole and keep it in shape, of cross-arms mounted on the pole, and set-screws for holding these arms adjustably in position, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

C. M. BRUSH.

Witnesses:

THOMAS KILROW,  
T. D. ESTABROOK.