No. 765,053. PATENTED JULY 12, 1904.

E. F. TAFEL.

HOLLOW POLE.

APPLICATION FILED DEC. 9, 1903.

NO MODEL.

Fig. 1.

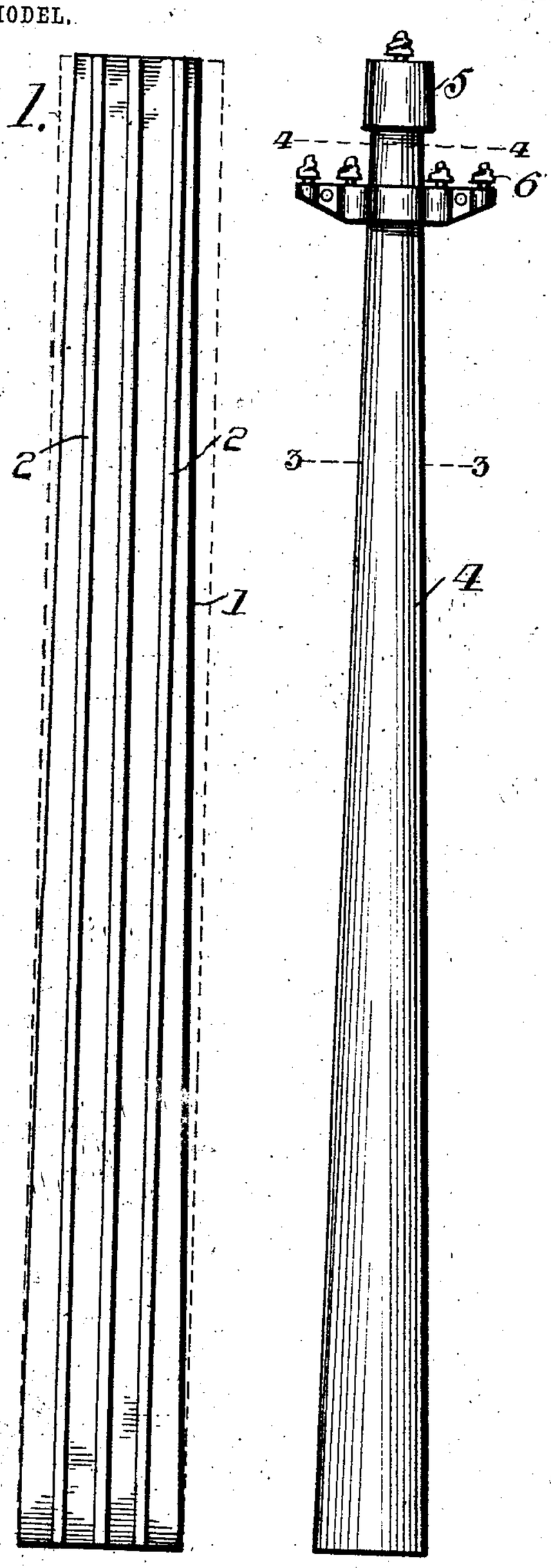

Fig. 2.

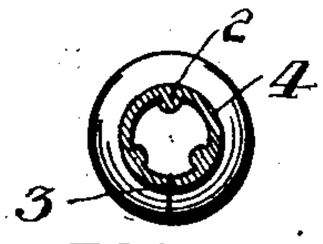

Fig. 3.

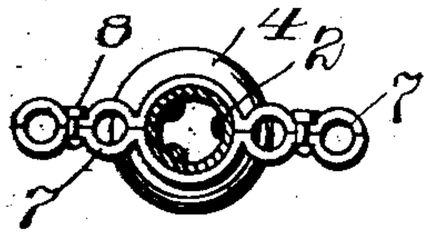

Fig. 4.

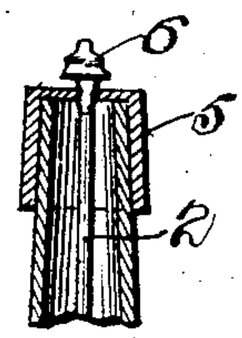

Fig. 5.

Witnesses:
K. H. Butler
E. L. Patten.

Inventor
E. F. Tafel,
By H. C. Evarts & Co.
Attorneys.

No. 765,053. Patented July 12, 1904.

UNITED STATES PATENT OFFICE.

EDWARD F. TAFEL, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JAMES C. GORMLEY, OF PITTSBURG, PENNSYLVANIA.

HOLLOW POLE.

SPECIFICATION forming part of Letters Patent No. 765,053, dated July 12, 1904.

Application filed December 9, 1903. Serial No. 184,460. (No model.)

To all whom it may concern:

Be it known that I, EDWARD F. TAFEL, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Hollow Poles, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in hollow poles or posts such as are used in connection with telegraph or telephone lines or for supporting of current-wires for various connections.

The invention has for its primary object the construction of a simple, cheap, and effective hollow post which will have the desired strength necessary to withstand the strain to which it may be subjected in different uses.

Briefly described, the invention comprises a hollow post which is made from a slab of material provided on its one face with ribs extending longitudinally throughout its length and which slab is drawn into a tapered tubular form, the edges thereof being butt-welded in the forming of the tube, the ribs being on the interior of the hollow post to give strength thereto. The post is closed at its upper end by a cap fitted thereon, which may be utilized for holding one or more insulators. The insulator-bars are suitably connected to the post at the desired point.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this application, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a developed plan view of the slab before being drawn into the tubular form. Fig. 2 is a side elevation of the completed post constructed in accordance with my invention. Fig. 3 is a cross-sectional view on the line 3 3 of Fig. 2. Fig. 4 is a horizontal sectional view taken on the line 4 4 of Fig. 2. Fig. 5 is a transverse vertical sectional view of a part of the post, showing the closure-cap on the upper end thereof.

To put my invention into practice, I provide a slab or sheet of material which is passed through a set of rolls that are grooved so as to form longitudinal ribs or beads extending throughout the length of the slab or sheet. After the slab or sheet has been rolled it is cut into the desired lengths and then placed in a shearing-mill to taper the same and after being tapered is drawn through a former to shape the same into tapered tubular form and butt-weld the side edges of the slab or sheet together. The longitudinal ribs are parallel throughout the length of the slab, but owing to the edges of the slab being sheared, as stated, the ribs are out of parallelism with said edges. In the shearing of the slab both edges are sheared equally from one end of the slab to the other end thereof. The sheet or slab is indicated at 1 in Fig. 1 of the drawings, and 2 indicates the longitudinal ribs or beads extending throughout the length of the sheet or slab, which latter is shown in plan view after it has been sheared in the shearing-mill to impart the desired taper thereto. After so tapered it is, as stated, placed in a former, so as to shape the same into tapered tubular form, as seen in Fig. 2 of the drawings, the side edges of the sheet or slab being butt-welded together, as seen in Fig. 3 at 3. On the upper end of the post 4 thus formed is placed a closure-cap 5, which may carry one of the insulators 6, if so desired. The remainder of the insulators 6 are carried by a supporting-bar, which I preferably form of two clamp-sections 7, which are placed on the post near the upper end thereof and secured by bolts 8, as shown in Fig. 4 of the drawings. However, I may employ various forms of insulator-supporting bars in connection with the type of post shown. I may also employ various means for attaching the steps to the pole, such as threading the same into the pole or securing clamps on the pole at desired distances, as may be required. As the sheet or slab is drawn through the former while it is still at the welding heat the side edges of said sheet or slab will be sufficiently welded

together to hold intact, it not being necessary or required that an absolute tight weld be made.

In the practice of the invention it will be noted that various slight changes may be made in the details of construction without departing from the general spirit of the invention.

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

1. As a new article of manufacture, a hollow post formed from a tapered slab having both its edges tapered equally from one end of the slab to the other, and the edges brought into abutting engagement, and ribs extending longitudinally throughout the length of the slab in parallelism with each other and out of parallelism with the said tapered edges of the slab.

2. As a new article of manufacture, a hollow pole or post formed from a slab having tapered edges, and ribs formed integral with the inner face of said slab, and being out of parallelism with the edges thereof.

In testimony whereof I affix my signature in the presence of two witnesses.

EDWARD F. TAFEL.

Witnesses:
A. M. WILSON,
E. E. POTTER.