

H. BROOKE.
Telegraph Insulators.

No. 154,451.

Patented Aug. 25, 1874.

Fig 1

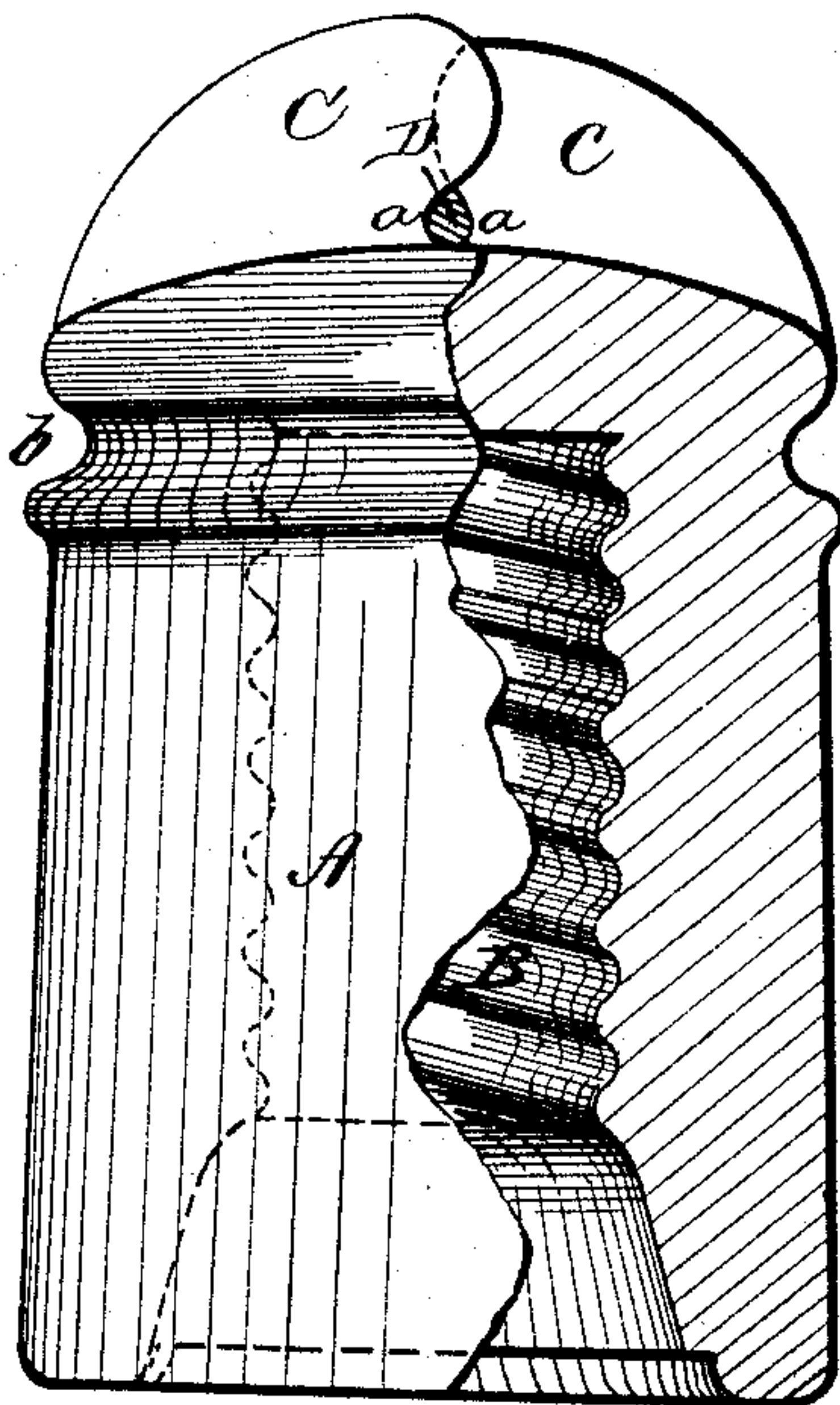
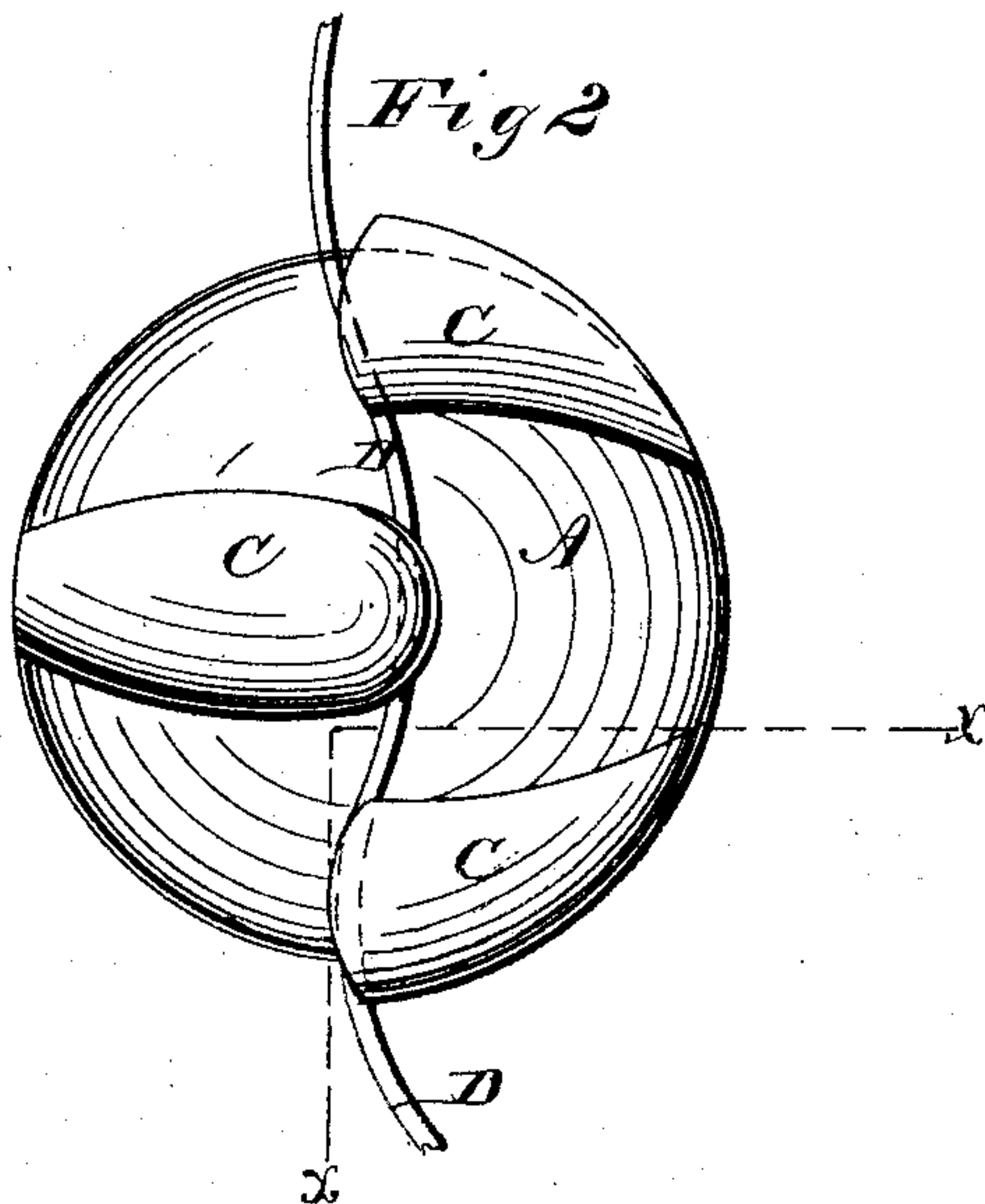


Fig 2



WITNESSES

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UNITED STATES PATENT OFFICE.

HOMER BROOKE, OF NEW YORK, N. Y.

IMPROVEMENT IN TELEGRAPH-INSULATORS.

Specification forming part of Letters Patent No. **154,451**, dated August 25, 1874; application filed April 20, 1874.

To all whom it may concern:

Be it known that I, HOMER BROOKE, of New York, in the county of New York and in the State of New York, have invented certain new and useful Improvements in Insulators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon making a part of this specification.

My invention relates to an improvement upon the commonly-used glass telegraph-insulator. It consists of an insulator made of a single piece of glass, and provided upon its top with projecting lugs or ears, under which the telegraph-wire is held in grooves. These ears each have a small groove under them, and these grooves are not on a straight line with each other, so that, as the wire is passed into them, it is curved or crimped to prevent its slipping longitudinally through the same. In addition to the ears or lugs upon the top, my insulator is provided with the usual circumferential groove near the top, all of which will be hereinafter more particularly described.

One object of my invention is to construct an insulator that will cost but little, if any, more than those now commonly used, and one that will effectually hold the main wire without the time, trouble, and expense of tying the wire thereto (as is now done) by means of an additional piece of wire.

Another object of my invention is to so construct the insulator that the wire can be perfectly held at any angle without the use of such additional wire above described.

Figure 1 represents a side view, and Fig. 2 a plan view, of my insulator.

In the drawings, A represents an insulator made of glass, of the usual form, with its interior hollowed out from the base to near the top thereof, as shown at B, Fig. 1. This interior may or may not be provided with screw-threads for the purpose of attaching the in-

ulator wherever desired. Near the top of the body A is formed a circumferential groove, *b*. Upon the top of this body A are formed three or more projecting lugs or ears, C C C, as shown in Fig. 2. These ears are not all formed on the same side, and the ends of those on the one side project beyond the ends of those on the other side. Under each ear is formed a small groove, *a*, into which the wire D lies, and, when passed therein under the ears, it will be bent in a curved or cramped manner, as seen in Fig. 2, and cannot easily slip or slide through the grooves; hence, is not liable to sag between the poles.

In case of the falling of the pole, or the detaching of the insulator, should the wire become disengaged from under the ears, it can easily be replaced by raising it above the insulator, and dropping upon the top thereof and under the ears, without cutting the wire.

Oftentimes it is necessary to stretch the wire at an angle from one insulator to the other—for instance, from the telegraph-office to the pole outside. In this case the wire is first turned around the groove *b*, and then through the grooves under the ears, so as to perfectly hold the wire.

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

1. As an article of manufacture, a telegraph-insulator made of a single piece of glass, provided upon its top with the projecting ears C C C, and grooves *a*, for holding the wire thereon in a curved or cramped manner, all substantially as and for the purposes herein set forth.

2. A telegraph-insulator made of a single piece of glass, and provided with projections C C C and circumferential groove *b*, substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of April, 1874.

Witnesses:

HOMER BROOKE.

EDWD. SLACK,

E. R. WHITNEY.