

## LIGHTNING-ROD COUPLING.

Patented May 2, 1876.



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# UNITED STATES PATENT OFFICE.

SYLVESTER BRADLEY, OF BLOOMINGTON, ILLINOIS.

## IMPROVEMENT IN LIGHTNING-ROD COUPLINGS.

Specification forming part of Letters Patent No. **176,769**, dated May 2, 1876; application filed October 4, 1875.

*To all whom it may concern:*

Be it known that I, SYLVESTER BRADLEY, of Bloomington, in the county of McLean, and in the State of Illinois, have invented certain new and useful Improvements in Lightning-Rod Coupling; 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.

The nature of my invention consists in the construction and arrangement of a coupling for lightning-rods, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 shows two detached sections of lightning-rod with the coupling therein. Fig. 2 is a longitudinal section of the same when coupled together. Fig. 3 is a perspective view of the coupling.

A and B represent two sections of a lightning-rod, constructed in any of the known and usual ways, and to be connected together by means of a coupling constructed in the following manner:

The coupling consists of a male part, C, and a female part, D, secured in the adjoining ends of the two sections A B. The male part C of the coupling is, at its inner end, made large enough to fit in and be permanently secured to the end of the section A, the portion C' of said part C extending beyond the section A,

being turned down of smaller diameter, as shown. The female part D of the coupling fits in and is secured to the end of the lightning-rod section B, and has a central aperture for the passage of the part C'. In this aperture, on opposite sides, are longitudinal grooves *x x* for the passage of pins *a a*, which project from opposite sides of the part C' near its end.

The inner end of the female part D is made with two inclines, *b b*, as shown particularly in Fig. 3, so that when the male part C C' is inserted in the female part D and then turned around, the pins *a a* will move up said inclines *b b*, and bind the two parts of the coupling together, and thereby uniting the two sections of the lightning-rod.

The male part C C' may be made hollow, as shown, for the passage of a central rod, G, when an additional conductor for electricity is desired.

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

The combination, with the lightning-rod sections A B, of the coupling, consisting of the male part C C', with pins *a a*, and the centrally-bored female part D, with grooves *x x* and inclines *b b*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of September, 1875.

SYLVESTER BRADLEY.

Witnesses:

THOS. SLADE,  
GEO. P. GILL.