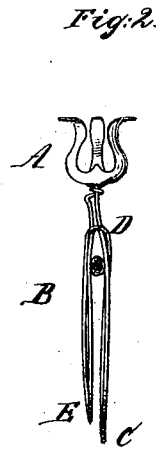
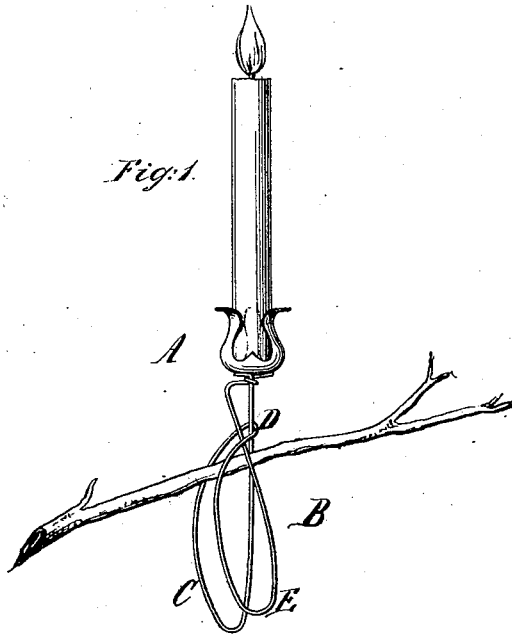


F. A. SCHROEDER.
Clamp for Candle-Holder.

No. 164,599.

Patented June 15, 1875.



Witnesses:
Otto Hufeland.
Char. Hahlers.

Inventor:
Ferdinand A. Schroeder
per
Van Santvoord & Hauff
Attors

UNITED STATES PATENT OFFICE.

FERDINAND A. SCHROEDER, OF JERSEY CITY HEIGHTS, NEW JERSEY.

IMPROVEMENT IN CLAMPS FOR CANDLE-HOLDERS.

Specification forming part of Letters Patent No. **164,599**, dated June 15, 1865; application filed May 15, 1875.

To all whom it may concern:

Be it known that I, FERDINAND A. SCHROEDER, of Jersey City Heights, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Clamps for Candle-Holders and other purposes, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 is a side elevation of my improved candle-holder as it appears when mounted on a branch of a Christmas-tree. Fig. 2 is also an elevation thereof, the view taken being at right angles to that taken in Fig. 1.

Similar letters indicate corresponding parts.

This invention relates to clamps applicable to various uses and articles, such, for instance, as candle-holders for Christmas-trees and holiday occasions; and it consists in a double loop of wire, which is constructed in such a manner that the loops form a broad spring-clasp, which can be sprung over a branch or twig or other object, to which they remain fastened by their own elasticity. The clamp is here shown connected to a candle-socket, which consists of a single piece of metal—tin, for example—cut out and bent in such a manner that its sides consist of three leaves, which are formed by cutting away the intermediate parts of the blank, said leaves being bent upward and inward in such a manner that they form a spring-socket for the candle. From the bottom of the socket extends a wire clamp, consisting of a loop of wire, whose two ends are soldered to the bottom of the socket, and whose bight is turned over so as to come behind the strands of the loops, thereby forming from said strands two broad parallel loops, the straighter strands of which are confined between the strands that form the bight, and which acquire from that construction great elasticity and broad surfaces, which enables them to grasp securely, and with considerable tenacity, any object over which they have been sprung.

My improvement has the merit of simplicity of construction and operation and cheapness, besides the merit of being a secure

clamp for the candle-socket or other articles to which it may be applied.

The letter A designates the socket which receives the candle, and B is my improved wire clamp, by which the socket is secured to any object over which the loops of the clamp are sprung.

I construct my clamp by taking a piece of wire, having suitable stiffness and elasticity, and solder one end to the bottom of the socket or other article to which the clamp is to be applied. I extend the wire straight below the bottom of the socket to a distance equal to the length to be given to the clamp, and then bend the wire upward from that point so as to form a broad loop, C, and then carry the wire around behind the back of the loop thus formed at a little distance below the socket A, so as to form a bight, D, and thence bend the wire forward and downward parallel with the loop C, so as to form another broad loop, E, and thence upward within the bight D to the bottom of the socket A, where the second end of the wire is also soldered.

In this manner two broad parallel loops are formed from a single piece of wire at very little cost of time, labor, and material, and a safe and excellent clamp is attained.

I make one of the loops of greater length than the other loop, so that the longer loop shall serve as a guide, and facilitate the attachment of the clamp to the tree or other object on which it is to be mounted. This part of my invention is shown in the drawing, where the loop C extends beyond the loop E, for the purpose above mentioned.

What I claim as new, and desire to secure by Letters Patent, is—

The wire clamp B, composed of the loops C E, held together by means of the bight D, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 21st day of December, 1874.

FERDINAND A. SCHROEDER. [L. S.]

Witnesses:

W. HAUFF,
E. F. KASTENHUBER.