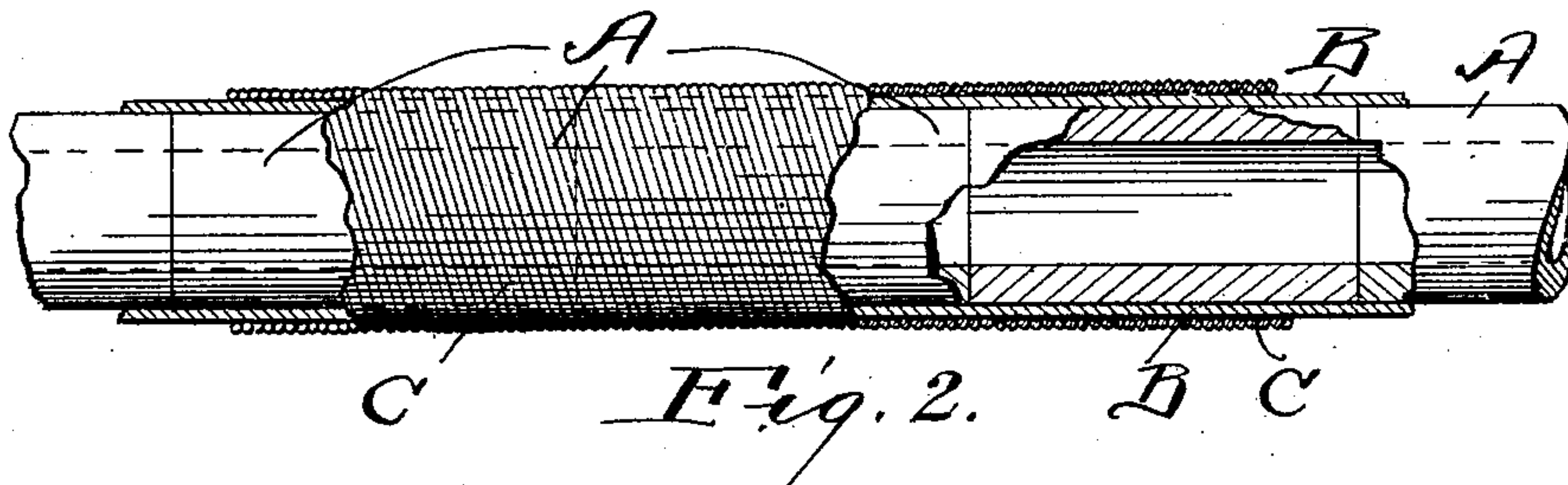
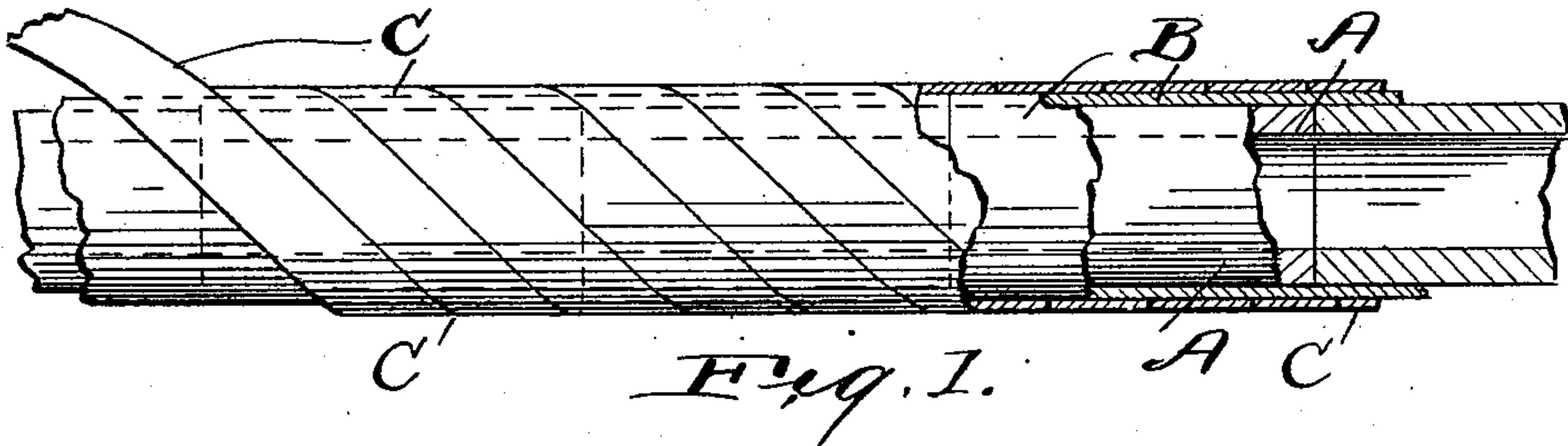


(No Model.)

A. L. DANIELS.
CONDUIT.

No. 583,672.

Patented June 1, 1897.



Witnesses.
E. B. Gilchrist
Ella E. Tilden

Inventor
Adelbert L. Daniels
By
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his Attorneys

UNITED STATES PATENT OFFICE.

ADELBERT L. DANIELS, OF NORTH EAST, PENNSYLVANIA, ASSIGNOR TO
HORACE B. CAMP, OF AKRON, OHIO.

CONDUIT.

SPECIFICATION forming part of Letters Patent No. 583,672, dated June 1, 1897.

Application filed February 10, 1896. Serial No. 578,666. (No model.)

To all whom it may concern:

Be it known that I, ADELBERT L. DANIELS, of North East, Erie county, Pennsylvania, have invented certain new and useful Improvements in Conduits; 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 pertains to make and use the same.

My invention relates to an improved conduit for receiving electric wires or cables.

The object of my invention is to provide a cheap and durable conduit for holding wires conveying electric currents in buildings, which conduit is not liable to be injured by external violence and has a fireproof and electrically-non-conducting inner wall composed of clay and is capable of protecting the wires placed therein from external moisture.

With this object in view my invention consists, essentially, in constructing a conduit comprising an inner tube composed of short lengths or sections and of clay that of course is fireproof and a non-conductor of electricity, a flexible waterproof layer surrounding said tube of clay, and a flexible outer metallic sheathing around the waterproof material.

In the accompanying drawings, Figures 1 and 2 are side elevations of conduits embodying my invention and have portions broken away and in longitudinal section to more clearly show the construction.

Referring to said drawings, A represents an inner tube or pipe composed of clay that of course is fireproof and a non-conductor of electricity. Said tube or pipe A is formed in short lengths or sections, as shown, to render it capable of being bent, if required, without rupturing the same.

B represents a waterproof layer surrounding the clay tube or pipe A and capable of preventing the penetration of moisture through and into the interior of said porous clay tube. Said waterproof layer is flexible.

C represents a metallic sheathing surrounding said waterproof layer B and protecting

portions A and B from external injury. Said sheathing is flexible, and to render it desirably flexible is composed, preferably, of metal tape, as shown in Fig. 1, or wire, as shown in Fig. 2, wound around the waterproof layer, and the coils of the tape or wire are preferably arranged as close together as practicable, so as to avoid any space between adjacent coils and thereby prevent the ingress of destructive matter or substances to the waterproof material.

I would have it understood, however, that my invention involves, broadly, a conduit comprising an inner clay tube composed of short lengths or sections and an outer wrapping of wire or tape composed of any suitable material and preferably a waterproof layer between the wrapping and clay tube.

What I claim is—

1. A conduit consisting of an inner clay tube composed of short lengths or sections, an outer wrapping of wire or tape, and a coat or layer of waterproof material between said tape or wire and the clay tube, substantially as and for the purpose set forth.

2. A conduit consisting of an inner clay tube composed of short lengths or sections, and a layer of waterproof material covering said clay tube externally and wrapped with wire or metallic tape, substantially as and for the purpose set forth.

3. A conduit consisting of an inner clay tube composed of short lengths or sections, waterproof material covering said clay tube externally, and wire or metal tape wound around the waterproof layer so closely as to prevent the formation of spaces between adjacent coils in said tape or wire, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 22d day of January, 1896.

ADELBERT L. DANIELS.

Witnesses:

C. H. DORER,

ELLA E. TILDEN.