(No Model.)

C. H. MACLOSKIE & W. E. BAKER.

TROLLEY WIRE HANGER.

No. 446,985. Patented Feb. 24, 1891.

Fig. 1.

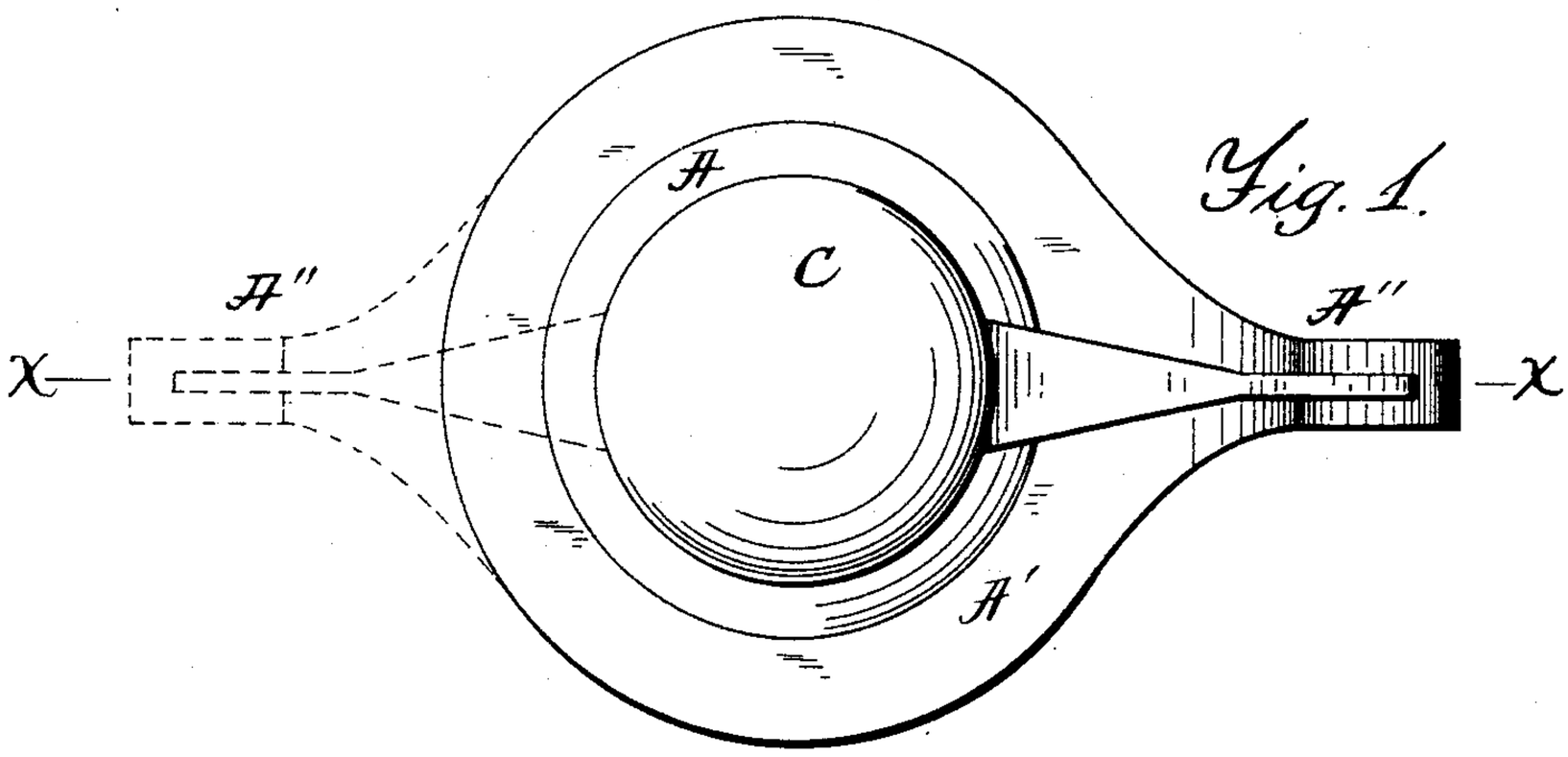


Fig. 3.

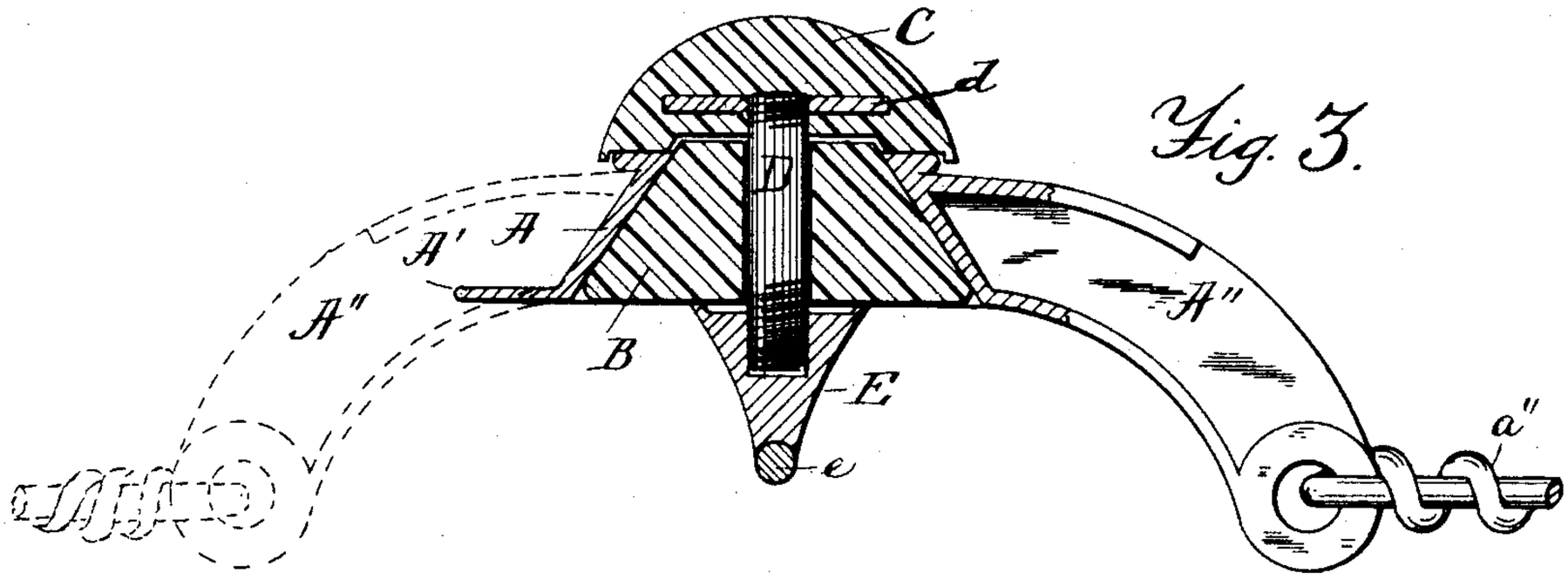
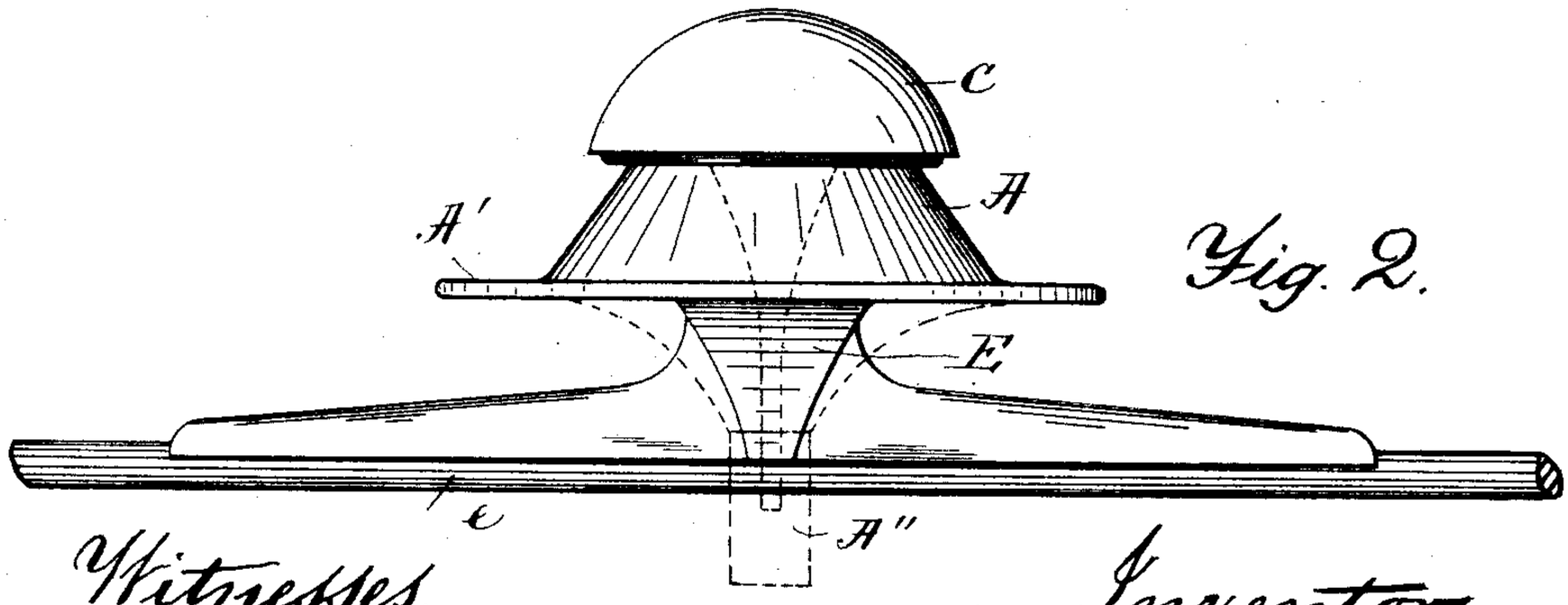


Fig. 2.



Witnesses.
Geo. C. White
Alice A. Perkins.

Inventors.
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UNITED STATES PATENT OFFICE.

CHARLES H. MACLOSKIE AND WILLIAM E. BAKER, OF BOSTON, MASSACHUSETTS.

TROLLEY-WIRE HANGER.

SPECIFICATION forming part of Letters Patent No. 446,985, dated February 24, 1891.

Application filed November 18, 1890. Serial No. 371,791. (No model.)

To all whom it may concern:

Be it known that we, CHARLES H. MACLOSKIE and WILLIAM E. BAKER, both citizens of the United States, and residents of Boston, in the county of Suffolk and State of Massachusetts, have jointly invented new and useful Improvements in Trolley-Wire Hangers, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in trolley-wire hangers, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a top plan view of the improved hanger, and Fig. 2 represents an end view thereof. Fig. 3 represents a cross-section on the line X X shown in Fig. 1.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The invention consists of a hollow conical metal case A, open from top to bottom and having an annular rib or flange A′ at or near its larger end, as shown.

B is an insulating-cone of porcelain or other suitable insulating material, which is made of a shape adapted to fit against the interior of the conical metal case A, as shown in Fig. 3.

Above the case A, and resting upon it, is the insulating-cap C, made of porcelain or other suitable insulating material, to which is secured a metal screw-spindle D, passing loosely through a perforation *b* in the insulating-cone B and having its lower end screwed into the metal ear E, to which the trolley-wire *e* is soldered or otherwise metallically connected. The screw-spindle D is preferably attached to the mass of the porcelain cap C by means of a metal washer *d*, riveted to the upper end of said spindle D and embedded in the plastic porcelain cap before it is baked. The said washer *d* is preferably made larger in diameter than the upper opening in the case A, so as to cause such washer to be supported on the upper end of said case A if the cap C should accidentally be broken.

In one piece with the conical case A is cast one or more arms A″ A″, to the perforated ends of which the usual stay-wires *a″ a″* are connected, as shown in Fig. 3.

The hanger can be made with one or two arms A″, according to the manner of hanging the trolley-wire, as is usual in devices of this kind, said arms being shown, one in full lines and one in dotted lines, in Figs. 1 and 3.

The shape of the arms A″ may be varied, according to the manner of supporting the improved hanger, without departing from the essence of the invention. Thus, for instance, they may be made upwardly projecting and provided with flanges or similar means for securing the same to roofs of tunnels, buildings, bridges, &c., or made of other well-known forms, according to the locality in which the hanger is used and the nature of the object to which it is to be secured.

It will be noticed that the insulating-block B is entirely inclosed and protected by the conical metal case A and its flange A′, the latter serving to impart additional strength to the hanger as well as to prevent the trolley-wheel from coming in contact with said insulating-block B in case such trolley-wheel should jump the wire *e* or while the operator is in the act of shifting it on or off the wire.

The insulating medium in trolley-wire hangers is usually made to project outside of and below the hanger-case, by which such insulator is liable to become chipped or broken by contact with the trolley-wheel. This objection is obviated with our construction, as above shown and described, in which the cone-insulator is inclosed within the case A and its annular strengthening and guard flange A′.

What we wish to secure by Letters Patent and claim is—

1. In a trolley-wire hanger, a conical case A, having one or more arms A″, and a conical insulating-block B, secured within said conical case, substantially as and for the purpose set forth.

2. In a trolley-wire hanger, a conical case A, having an annular flange A′ and one or more arms A″, combined with a conical in-

sulating-block B, secured within said conical case, substantially as and for the purpose set forth.

3. In a trolley-wire hanger, a conical case A, having an annular flange A′ and conical insulating-block B, secured within said case, combined with the insulating-cap C, having screw-threaded spindle D, and the screw-threaded trolley-wire-supporting ear E, substantially as and for the purpose set forth.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, on this 12th day of November, A. D. 1890.

CHARLES H. MACLOSKIE.
WILLIAM E. BAKER.

Witnesses:
ALBAN ANDRÉN,
GEORGE W. WHITE.