

L. & W. H. BERGER.

HOOKS FOR WATER-CONDUCTORS.

No. 182,403.

Patented Sept. 19, 1876.

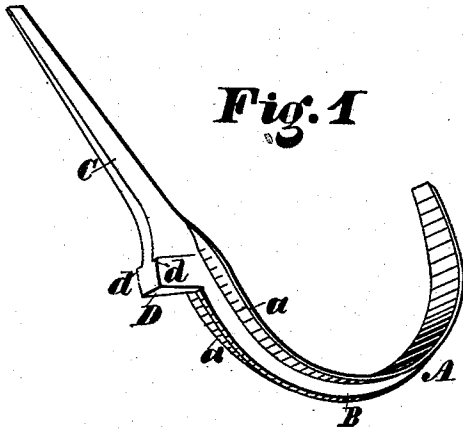


Fig. 1

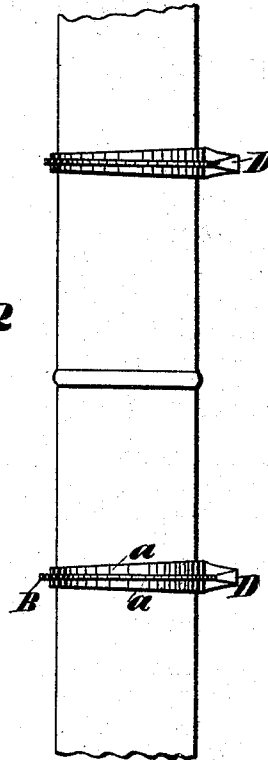


Fig. 2



Fig. 3

Witnesses

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UNITED STATES PATENT OFFICE.

LEVI BERGER AND WILLIAM H. BERGER, OF PHILADELPHIA, PA.

IMPROVEMENT IN HOOKS FOR WATER-CONDUCTORS.

Specification forming part of Letters Patent No. **182,403**, dated September 19, 1876; application filed February 19, 1876.

To all whom it may concern:

Be it known that we, LEVI BERGER and WM. H. BERGER, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Water-Conductor Hook; and we 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 it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a perspective of my invention. Fig. 2 is a front elevation, with a water-conductor attached. Fig. 3 is a vertical transverse section.

The object of our invention is to provide a simple and light hook of malleable iron, or other cast metal, which can be made at slight cost, may be readily driven into a wall and easily withdrawn, and which will not be likely to injure the water-conductor which it is designed to hold in place.

Our invention consists of a hook, the curved portion of which is re-enforced by a rib, so as to give greater strength with but slight additional weight. The drive or tang is of tapering or wedge shape, having at its point of connection with the curved portion a head, by means of which it is driven, said head being grooved on two sides to form ears, by means of which the hook, when necessary, may be readily withdrawn.

In the accompanying drawing, A designates the curved portion of the hook in the form of a web, re-enforced by the rib B, on either side of which are the flanges *a a*. This form of construction permits said curved portion to be made relatively quite broad and light, the

rib B imparting great strength, with but slight additional weight. C is the tang or drive, of tapering or wedge form, enlarged at its junction with the curved portion of the hook to form a driving-head, D. Said head is grooved or abruptly diminished on the side next the drive, so as to form ears *d d*, by means of which, through the application of a claw-hammer or equivalent device, the hook may be easily withdrawn when necessary or desirable.

A hook of this construction may be made at comparatively slight cost, being very simple and light, and will be found efficient and durable.

By making the curved part broad an extended holding-surface is presented to the conductor, which is not therefore likely to be dinged or bent by it. The rib B gives the required strength and stability without adding materially to the weight. The provision of the driving-head, with its ears, affords means of inserting the hook and withdrawing it without injury to the curved portion.

What we claim as our invention, and desire to secure by Letters Patent, is—

As a new article of manufacture, the cast-metal water-conductor hook herein described, consisting of the broad curved part A, re-enforcing rib B, and tang C, terminating in the driving-head D, substantially as shown.

In testimony that we claim the foregoing we have hereunto set our hands this 14th day of February, 1876.

LEVI BERGER.

WILLIAM H. BERGER.

Witnesses:

M. DANL. CONNOLLY,
CHAS. F. VAN HORN.