

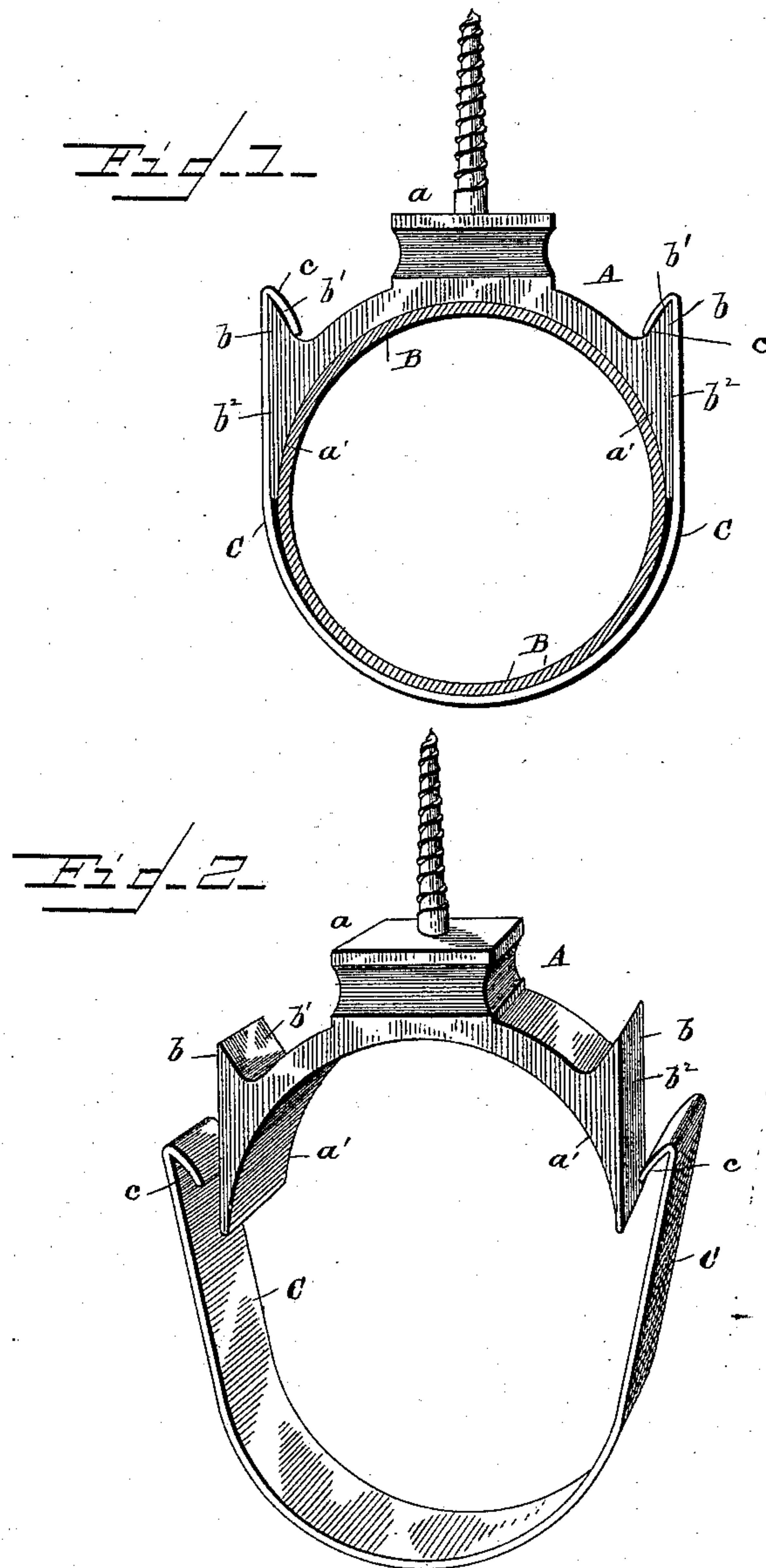
(No Model.)

C. E. KNAPP.

DEVICE FOR SUPPORTING PIPES.

No. 351,640.

Patented Oct. 26, 1886.



Witnesses
Edwin L. Yewell,
Ed. Yewell

Inventor
Charles E. Knapp
By his Attorney *L. W. Seely*

UNITED STATES PATENT OFFICE.

CHARLES E. KNAPP, OF HONESDALE, PENNSYLVANIA.

DEVICE FOR SUPPORTING PIPES.

SPECIFICATION forming part of Letters Patent No. 351,640, dated October 26, 1886.

Application filed May 21, 1886. Serial No. 202,924. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. KNAPP, a citizen of the United States, residing at Honesdale, in the county of Wayne and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Supporting Pipes; and I hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to devices for supporting conductor-pipes which convey water from eaves and gutters; and the invention consists in a supporting device having an attachment for securing it in any position to the house or building, in combination with a flexible band for surrounding the pipe so supported, the band being connected to the pipe in such a way that the weight of the supported pipe tends to keep it in close engagement.

It consists, further, in a casting having a central screw or rod, by which it is attached to the building, and two beveled hooked ends, in combination with a flexible band having hooked ends for engagement therewith, the said casting being so shaped as to form a support for the pipe, while that part of the pipe not inclosed by the casting is surrounded by the flexible band. These features are fully hereinafter described, and are shown in the accompanying drawings, in which—

Figure 1 shows a section of a round conductor-pipe, the supporting devices being shown in elevation. Fig. 2 is a separate view of the supporting-hook and flexible band.

A represents the main support, which may be formed of cast or wrought iron, as desired. It is composed of a base-plate, *a*, and two symmetrically-curved arms, *a'*, the inside surface of which has a smooth unbroken outline formed on the arc of a circle. Projecting from these arms are beveled or wedge-shaped hooks *b b*, the bevel being formed on the inner surface, *b'*, the outer surface, *b''*, being a plane substantially tangent to the arc formed by the curve of the arms *a'*. All these parts are formed in one piece. Embedded in the center of the base-plate, midway between the ex-

tremities of arms *a'*, is a screw or rod, by which the hook may be attached to a building in any position or at any angle, according to the location and direction of the pipe to be supported.

B represents a round conductor-pipe of ordinary construction. It will be seen that the curved arms fit closely the circumference of the pipe for about half its extent, it being of course understood that all sizes of pipe may be thus supported, and also that the support itself may be made in many different sizes, if desired.

C represents an iron band, somewhat elastic and sufficiently flexible to conform to the shape of the pipe. The ends of this band are bent into hooks *c c*, which are caused to engage with the beveled hooks *b b*. They are held in engagement not only by their own elasticity, but by the binding action of the beveled hooks *b b*, which increases as the weight increases.

The pipe is not only completely supported at every point by a self-fastening device, but may be readily disengaged therefrom without difficulty by simply springing the band C slightly and releasing it from the hooks.

The cheapness, simplicity, and efficiency of the device will be apparent upon inspection, and any detailed recital of its advantages is consequently deemed unnecessary.

Having described my invention, I claim—

1. The combination, with the arc-shaped closely-fitting support having the hooks *b b* and a central attachment for a building, of a flexible band having hooked ends and forming a continuation of the arc of the main support, substantially as described.

2. A supporting device for round pipes, consisting of a part, A, having a central screw or rod, two curved arms having beveled or wedge-shaped hooked ends, and a flexible band having hooked ends engaging with the said beveled hooks, substantially as described.

CHARLES E. KNAPP.

In presence of—

DANIEL WESTON,
MILES S. SHERWOOD.