

(No Model.)

R. ANDERSON.
WELL DIGGER.

No. 292,614.

Patented Jan. 29, 1884.

Fig. 1.

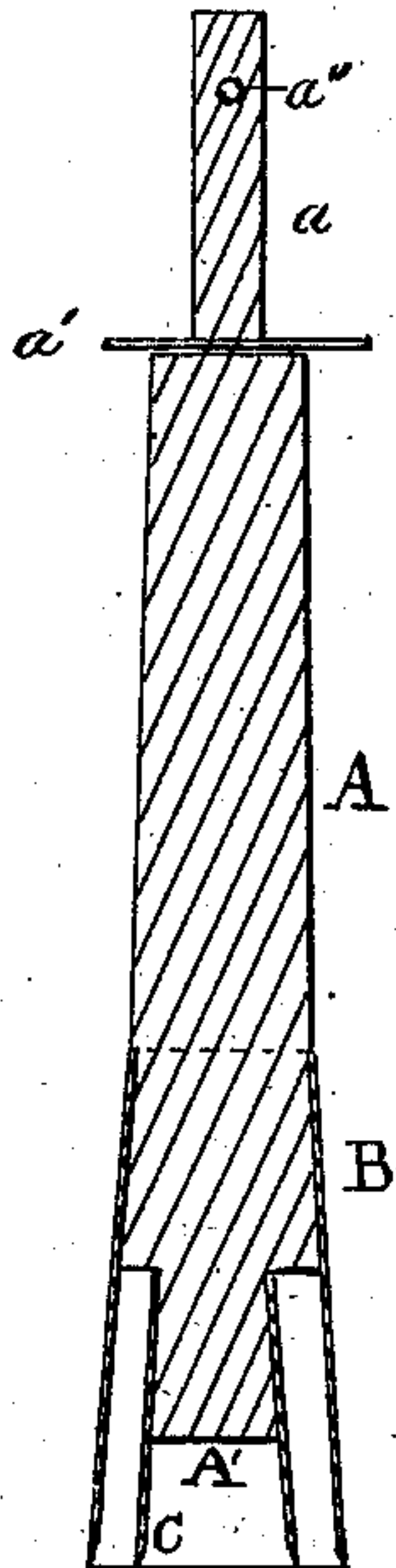


Fig. 2.

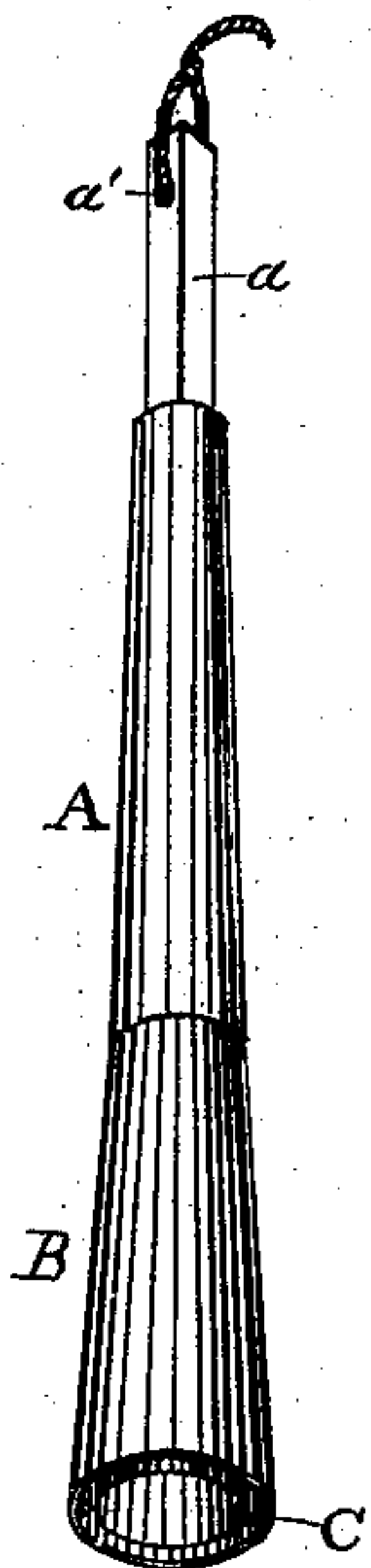
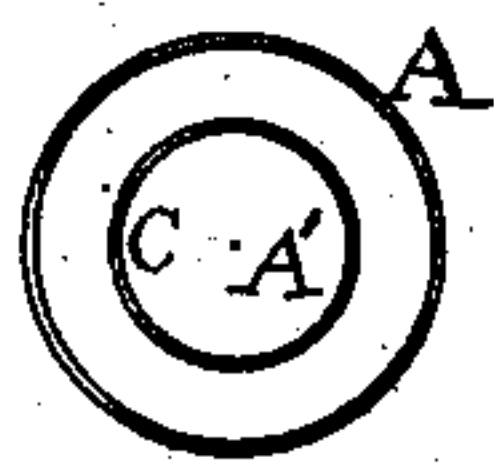


Fig. 3.

Attest.

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ROBERT ANDERSON, OF MEMPHIS, TENNESSEE.

WELL-DIGGER.

SPECIFICATION forming part of Letters Patent No. 292,614, dated January 29, 1884.

Application filed September 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROBERT ANDERSON, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Well-Diggers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a simple implement for sinking well or other holes in the ground, and which will be hereinafter more fully described, and pointed out in the claim.

In the drawings accompanying and forming part of the specification, Figure 1 is a longitudinal section. Fig. 2 is an end view, and Fig. 3 is a perspective view, of the implement.

A is a stock or shaft made of cast or wrought iron. At the top it is squared off to smaller dimensions, as at *a*, to pass through guides *a'*, one of which is shown in Fig. 1. Near the top of *a* is a hole, *a''*, for the cord, by which the device is suspended to the operative machinery for giving it the up-and-down motion, and which is unnecessary to be shown on the drawings, as it is well understood.

B represents a frustum of a cone made of sheet metal, having its lower edge sharpened, and secured to the stock A.

C is a shorter frustum, and of less diameter, made of sheet metal, and having its lower edge sharpened. It is secured to the lower end of stock A, as shown in Fig. 1.

The operation of this device is as follows: It is suspended by the cord to any machinery which will raise and lower it suddenly, whereby the cutting-edges will strike the ground, and as the earth is cut and loosened and removed the implement can be gradually lowered to go on with its work. The diameter of the cutting-tools will be regulated by the required diameter of the hole to be made. The action of the inside frustum is to hold the annulus of earth between it and the larger frustum, and bring it up to the surface when the device is pulled up.

I claim—

In a well-sinking device, the combination of the outer and inner conical cutting-tubes, substantially as and for the purpose described.

In testimony whereof I affix my signature in the presence of two witnesses.

ROBERT ANDERSON.

Witnesses:

S. L. HERRING,
J. M. HARRIS.