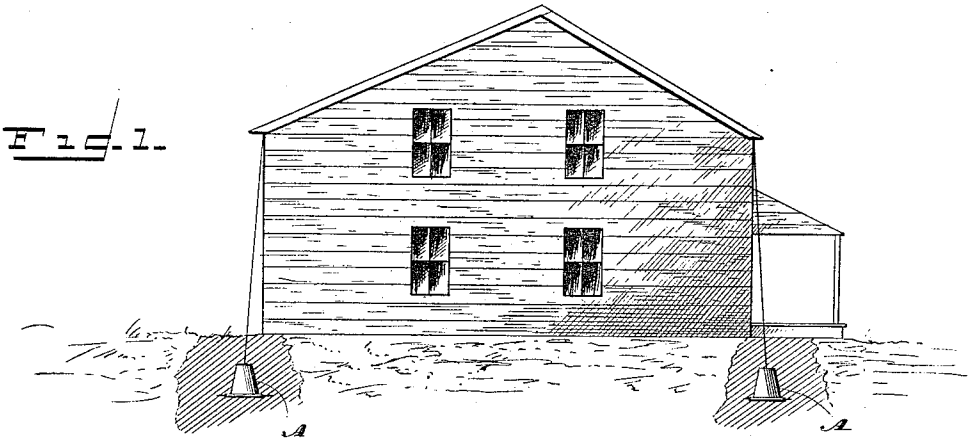
(No Model.)

T. NEVISON.

LAND ANCHOR.

No. 362,774. Patented May 10, 1887.

Fig. 1.



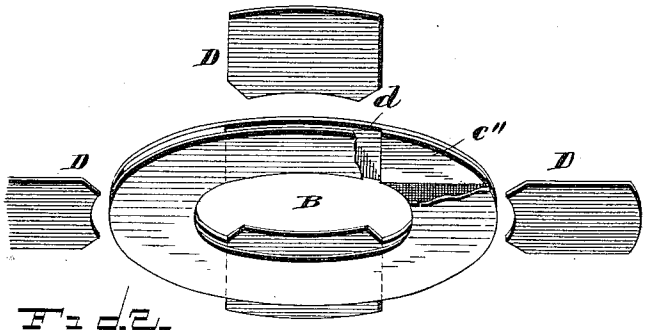
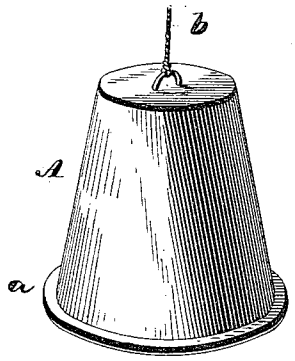


Fig. 2.

Fig. 3.





WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS NEVISON, OF FLORENCE, KANSAS.

LAND-ANCHOR.

SPECIFICATION forming part of Letters Patent No. 362,774, dated May 10, 1887.

Application filed September 9, 1886. Serial No. 213,157. (No model.)

To all whom it may concern:

Be it known that I, THOMAS NEVISON, a citizen of the United States of America, residing at Florence, in the county of Marion and State of Kansas, have invented certain new and useful Improvements in Land-Anchors; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in land-anchors for buildings, the object of said invention being to provide a cheap and effective means for securing the ground end of a stay rope or cable which is passed over a building so as to anchor said building firmly to the ground in case of cyclones or hurricanes; and my invention consists in the special construction and arrangement of the anchor, whereby, when said anchor is drawn upward after being placed in the ground, side wings will be caused to project so as to enter the ground which has not been disturbed in digging the hole for the reception of said anchor, as will be hereinafter fully set forth.

In the accompanying drawings, which illustrate my invention, Figure 1 is a side view of a building, showing the application of my improved land-anchor thereto. Fig. 2 is a perspective view showing the parts detached from each other, and Fig. 3 is a sectional view.

A refers to the conical portion of my improved land-anchor, which is preferably made of cast-iron, which tapers from its base upwardly, and it is provided at or near its lower edge with an outwardly-projecting flange, *a*, which is formed integral therewith. The upper portion has rigidly secured thereto a staple or eyebolt, to which the lower end of the cable *b* can be attached.

B refers to a metallic disk, which is made up of upper and lower plates, *c* and *c'*, which are provided with intervening plates, *c''*, which are rigidly attached to the upper and lower plates, so as to provide transverse passage-ways *d*, in which are placed wings or plates D, the inner sides of which are curved, as shown. The central opening in the disk B is of little less diameter than the diameter of the lower portion of the casting A, and the taper of said casting is such that when the disk is placed at the upper portion of said casting the sliding wings D are located so that their outer edges will project but a slight distance beyond the edge of the disk.

To secure my improved land-anchor in place a hole of a sufficient depth is dug in the ground, said hole being of a diameter a little greater than the disk B. After said hole is dug the conical casting A is placed in said hole and the disk which carries the wings D placed over said casting; the earth is then packed above the casting and disk, and when the cables are tightened the conical casting will be drawn for a short distance upwardly, and will force the side wings, which occupy a horizontal position, outwardly into the ground which has not been disturbed, so as to hold said disk securely in position, the casting engaging with the central opening in said disk being thus securely held from further upward movement, so that it cannot be drawn out of the ground.

I am aware that prior to my invention it has been proposed to use anchors for securing buildings in place, said anchors being composed of disks or spheres of metal to which cords or cables are attached, and I do not, therefore, claim such as my invention; but

What I claim as new, and desire to secure by Letters Patent, is—

1. In a land-anchor, a conical portion, A, provided at its upper end with means for attaching a cable thereto, in combination with a disk provided with horizontal passage-ways and a central opening, and plates or wings D, substantially as shown, and for the purpose set forth.

2. The combination, in a land-anchor, of the conical casting A, provided at its base with a flange and at its upper end with means for attaching a cable thereto, and a disk, B, provided with a central opening and passage-ways *d*, for the reception of sliding plates or wings which are adapted to enter the ground when the casting A is drawn upwardly, substantially as shown, and for the purpose set forth.

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

THOMAS NEVISON.

Witnesses:

COLIN CAMPBELL,

THOS. L. FENNO.