

No. 810,807.

PATENTED JAN. 23, 1906.

L. D. PITCHER.

GUY ANCHOR.

APPLICATION FILED SEPT. 5, 1905.

FIG. 2

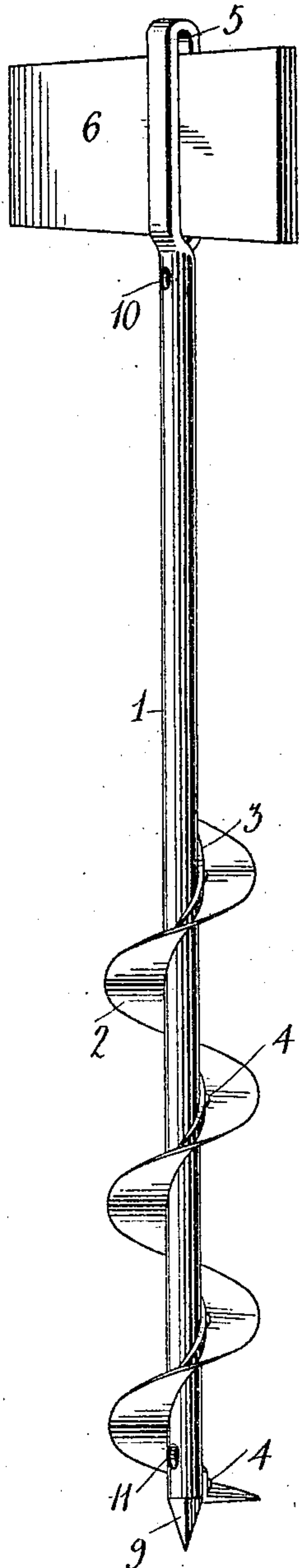


FIG. 1

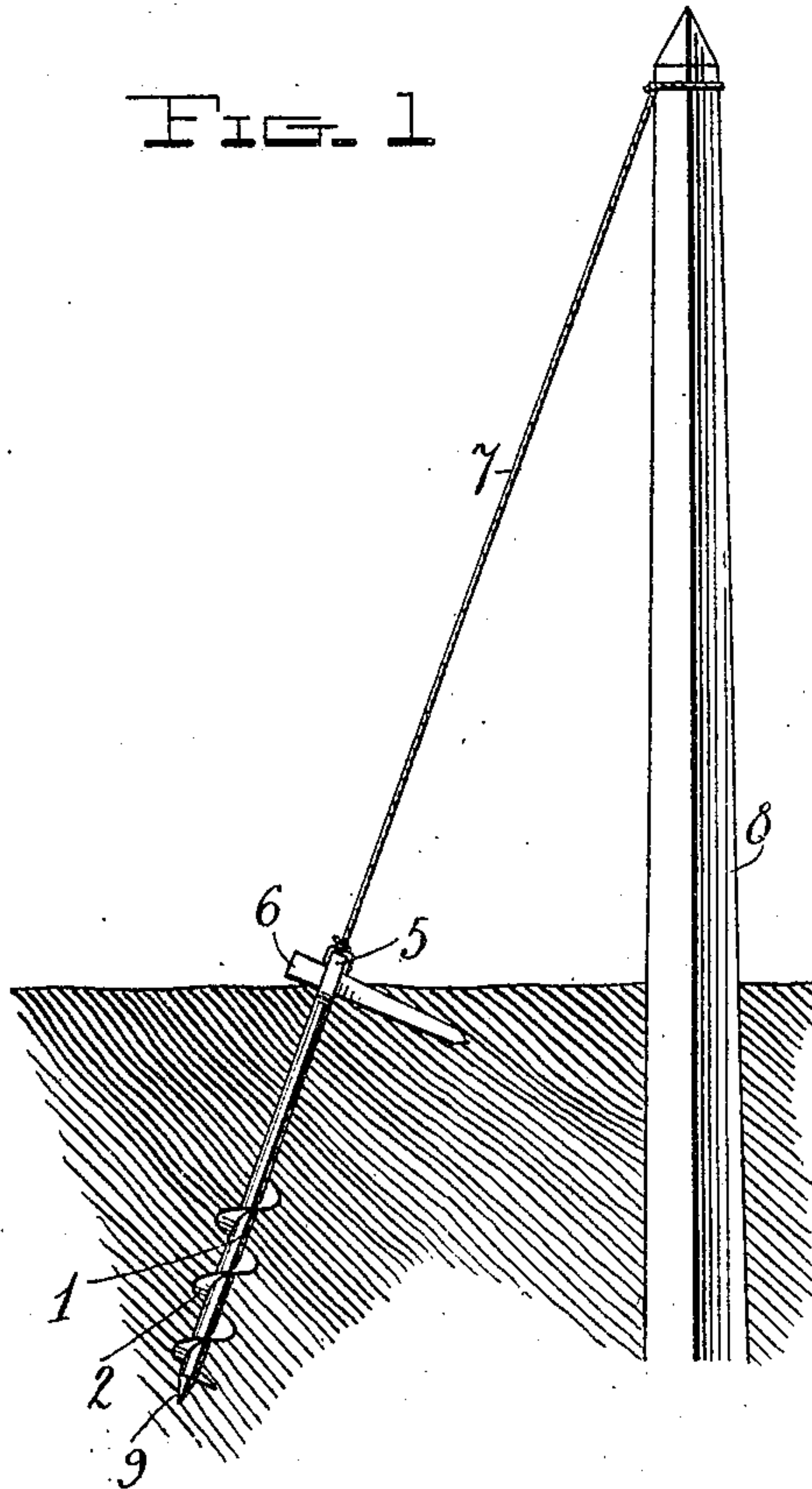


FIG. 3

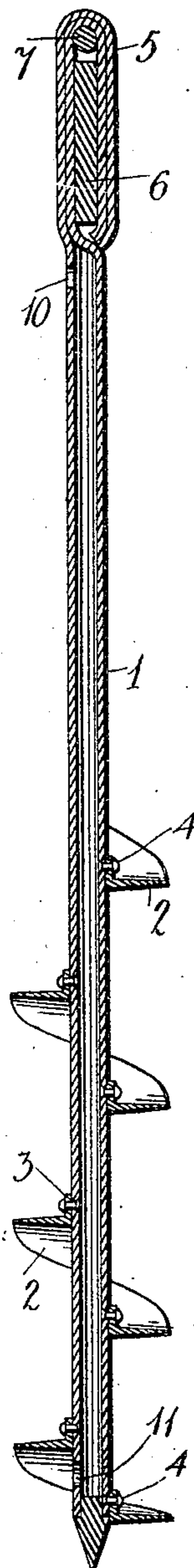
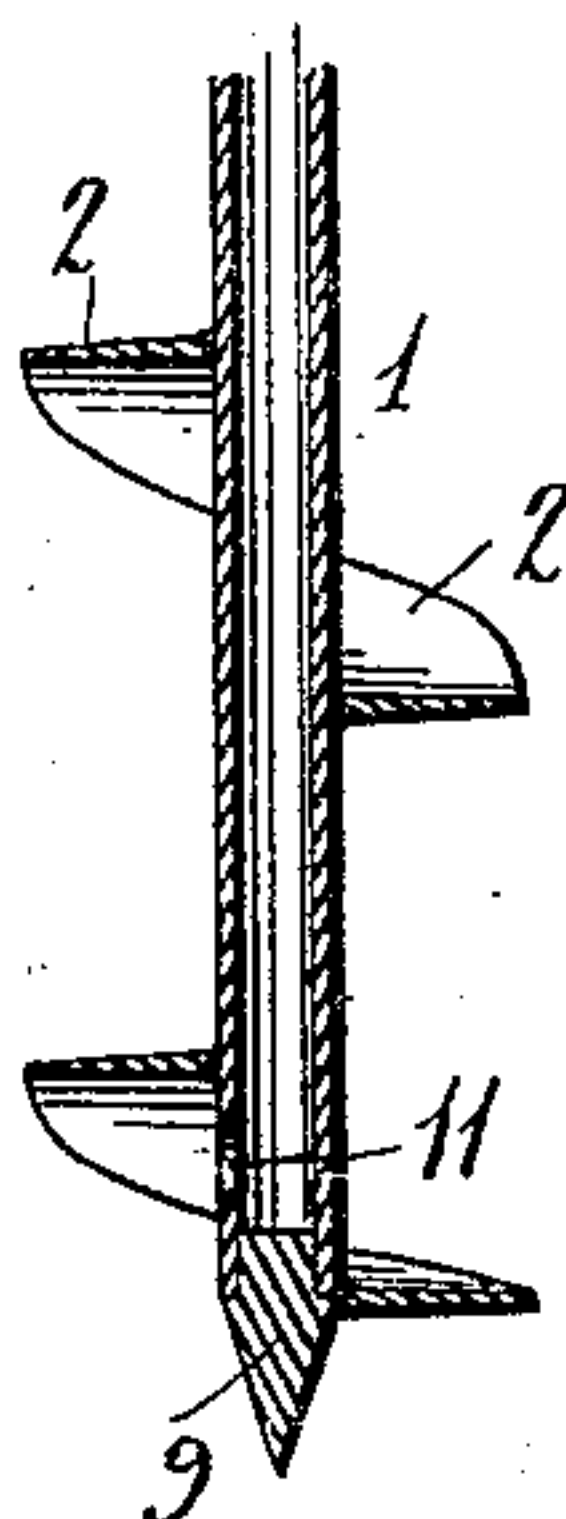


FIG. 4



Witnesses

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No. 810,807.

Specification of Letters Patent.

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Application filed September 5, 1905. Serial No. 277,044.

To all whom it may concern:

Be it known that I, LESTER D. PITCHER, a citizen of the United States, residing at Daytona, in the county of Volusia and State of Florida, have invented certain new and useful Improvements in Guy-Anchors; and I do 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.

My invention relates to improvements in anchors for guys, for telegraph-poles, and the like, and more particularly to that class that are screwed into the ground.

The object of the invention is to provide a device of this character in which after having been screwed into the ground the backward rotation thereof is prevented, and thus the anchor cannot be withdrawn by an upward pull thereon.

Another object of the invention is to simplify and improve the construction, and thereby render the same more efficient and durable in use and less expensive to manufacture.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a view showing the application of my invention. Fig. 2 is a side elevation of the anchor. Fig. 3 is a longitudinal sectional view of the same, and Fig. 4 is a detail sectional view showing a slightly-modified form of the invention.

Referring to the drawings by numeral, 1 denotes the body portion of the guy-anchor, which is preferably formed of a straight piece of pipe or metallic tubing and which has secured upon it a spiral rib or screw-thread 2 of gradually-increasing diameter. This spiral rib or flange 2 may be riveted to the tubular body 1, as shown in Fig. 3 of the drawings, or it may be soldered thereto, as shown in Fig. 4 of the drawings. When riveted, it is formed with an angularly-bent portion or flange 3, through which the rivets 4 are passed. The said rib or screw-thread 2 extends from the lower end of the body 1 to a point adjacent to its upper end, at which point said body is formed with a slot-opening 5 by bending the upper end of the body upon itself, as clearly shown in Fig. 3 of the

drawings. This opening is provided for the purpose of receiving a key 6 and the guy-wire 7, which latter extends to the upper portion of a telegraph-pole, post, or the like 8, as seen in Fig. 1 of the drawings. The key 6, which locks the anchor in the ground, is in the form of a flat bar and is inserted in the slot 5 after the anchor has been screwed into the ground. To facilitate the insertion of the anchor, the lower end of its body 2 may be closed and tapered, or, if desired, a tapered plug 9 may be secured therein, as shown. By constructing the lower end of the anchor in this manner an opening will be drilled in the ground for the body, and thus permit the anchor to be more readily screwed into the ground in the position shown in Fig. 1.

In the upper portion of the tubular body 1 I preferably form an opening 10 and in the lower end of the same adjacent to the tapered plug 9 a similar opening 11. These openings permit oil, water, or any other liquid to be introduced into the tubular body and supplied to the point 9, so that the latter will readily enter earth that is dry and hard. By softening the earth with a suitable liquid in this manner I have found that the device may be readily screwed into earth that is extremely hard and compact.

The key 6 may be employed as a cross-bar or handle in screwing or inserting the anchor into the ground, as will be readily understood.

The construction, use, and advantages of the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. It will be seen that owing to the manner in which the anchor is constructed it will be light and at the same time sufficiently strong and durable for the uses intended for it and that it may be manufactured at a comparatively small cost. It may be quickly and easily screwed into the ground and securely locked therein by the key 6.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

An anchor of the character described comprising a tubular body having a closed tapered end and a spiral rib upon its outer

side, said body being also formed with liquid
inlet and discharge openings arranged, re-
spectively, adjacent to its upper and lower
ends, whereby a liquid may be introduced
5 into the body and discharged adjacent to
said point to soften the earth in which the
latter is inserted, substantially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

LESTER D. PITCHER.

Witnesses:

SAMUEL BENNETT,
JAMES BENNETT, Jr.