

Oct. 18, 1932.

T. B. BASH

1,883,477

GUY ANCHOR

Filed Dec. 24, 1927

Fig. 1.

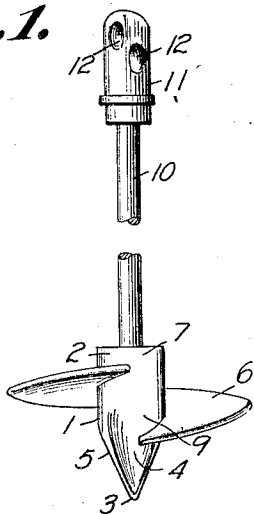


Fig. 2.

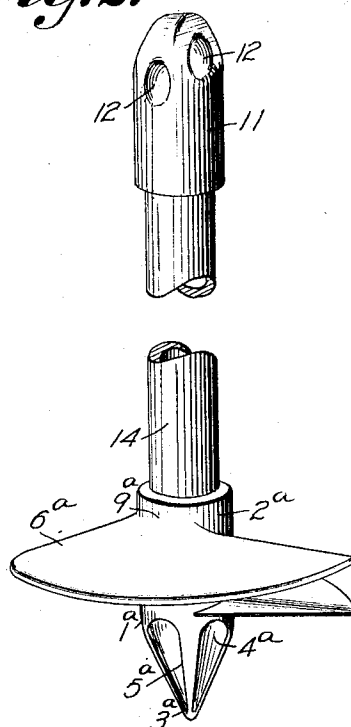


Fig. 3.

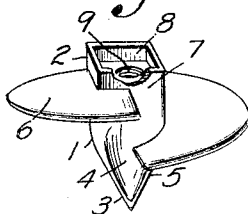


Fig. 4.

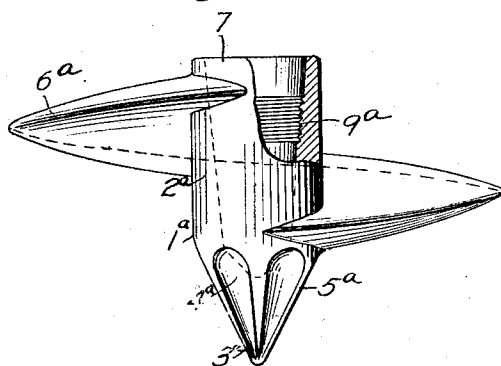
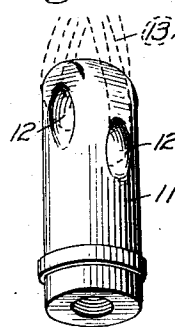


Fig. 5.



INVENTOR
Thomas B. Bash.
BY *Arthur L. Brown*
ATTORNEY

UNITED STATES PATENT OFFICE

THOMAS B. BASH, OF KANSAS CITY, MISSOURI

GUY ANCHOR

Application filed December 24, 1927. Serial No. 242,365.

My invention relates to guy rope or rod anchors and more particularly to a device of that character comprising a compacting earth auger and an anchor to which a plurality of guy wires or rods may be attached, the principal objects of the invention being to provide a device of this character which may be easily and quickly set for firmly anchoring the guy ropes or rods which it is intended to hold.

In accomplishing these and other objects of the invention I have provided improved details of structure, the preferred forms of which are illustrated in the accompanying drawing, wherein:

Fig. 1 is an elevational view of a device embodying my invention.

Fig. 2 is a perspective view of a slightly modified form of the device.

Fig. 3 is a detail perspective view of a preferred form of auger.

Fig. 4 is a similar view of a modified form of auger.

Fig. 5 is a detail perspective view of an eye nut for the anchor rod.

Referring more in detail to the drawing:

1 designates an auger which is preferably formed of malleable iron comprising a tubular body 2 having an exteriorly open portion which may be squared in cross section, the tip 3 of the body 2 being tapered and provided with grooves 4 in its side faces providing cutting edges 5. Extending about the body 2 is a spiral auger blade 6 having its upper point initiated at about the transverse center of one of the flat faces 7 of the body 2 and passing about the body to about the center of a flat face and adjacent the bottom of the body above the tapered tip.

The blade 6 is of particular construction in that its pitch is of a character to effect upward compression of the earth through which the blade is passed and with a minimum disruption of the earth during the setting of the auger. In the general description of parts, it will be understood that, corresponding to portions 1 to 6 inclusive, of Figs. 1 and 3, are the parts designated as 1^a to 6^a inclusive, in the modified form shown in Figs. 2 and 4.

In the upper end of the body 2 is a socket 8 squared at its upper end to receive a square headed wrench and having a bottom portion 9 circular in cross section and screw threaded to receive the rod 10. In this form of the device the anchor rod 10 is applied to the auger through the squared portion of the socket and when the anchor is to be set a wrench comprising a hollow shank having a head square on its exterior is fitted over the rod and seated in the socket portion 8 to screw the auger into the earth, the wrench being removed over the rod when the auger is set.

The outer end of the rod 10 carries an eye nut 11 having a plurality of eyes 12 for receiving a plurality of guy ropes 13.

In the modified form illustrated in Figs. 2 and 4 the wrench socket 9^a is circular in cross section throughout its entire depth to receive a rod 14 of greater diameter than the rod 10 and preferably of tubular construction so that the larger rod may serve as a wrench for installing the auger, thereby avoiding the necessity for a separate tool for that purpose, the modified form being employed when the auger is to be located at considerable depth, in which case a number of joints of rod 14 may be employed and coupled until the proper depth is reached.

At the time of manufacture of the auger, particularly of the form illustrated in Figs. 1 and 3, the auger, the rod and eye nut are assembled for storage or shipment. When the anchor is to be installed, the eye nut is removed from the rod, the wrench applied over the rod into the squared socket of the auger, the eye nut replaced to hold the wrench to the auger, and the auger screwed into the earth, the form of the auger blade permitting placement of the auger without material disruption of the earth and any disruption occurring providing an upward compression of the earth to compact the earth and insure holding of the anchor.

By locating the head of the wrench within the auger socket as distinguished from an exterior application, breakage of the wrench due to splitting is avoided. When the auger has been set, the eye nut is removed, the

wrench removed from along the rod, the eye nut replaced, and the guy ropes attached to the eye nut.

In the modified form the application of the auger corresponds to that just described except that no additional wrench is required other than a pipe wrench or the like, which may be applied to the tubular rod in order to supply the required force for turning the auger through the earth. The joints of the anchor rod may be provided with threaded or other suitable couplings (not shown) so that one joint may be applied to the other to permit installation of the auger to any desired depth.

What I claim and desire to secure by Letters Patent is:

A guy anchor formed of a single casting of malleable material, including a body having a pilot or tip at its lower end, of substantially pyramidal form, the faces of the pyramidal portion being recessed to provide cutting portions at the corners, the faces of the tip being continued upwardly of the body beyond the tip portion; a helical blade of substantially a single continuous convolution, having its lower or entering edge projecting substantially centrally from one of the faces of the body, and its trailing or upper edge substantially overlying said leading edge; a wrench socket of polygonal section formed in the upper portion of the body and adapted internally to receive an anchor-driving wrench, the socket extending to a substantial depth within the blade-carrying portion of the body, whereby the tubular part of the body constitutes a combined hub for the blade and a wrench-receiving seat; and a threaded socket extending below said wrench socket for detachably engaging a threaded end of an anchor rod.

In testimony whereof I affix my signature.
THOMAS B. BASH.

45

50

55

60

65