J. BLACKBURN.

EARTH ANCHOR.

APPLICATION FILED MAR. 11, 1913.

1,086,640.

Patented Feb. 10, 1914.

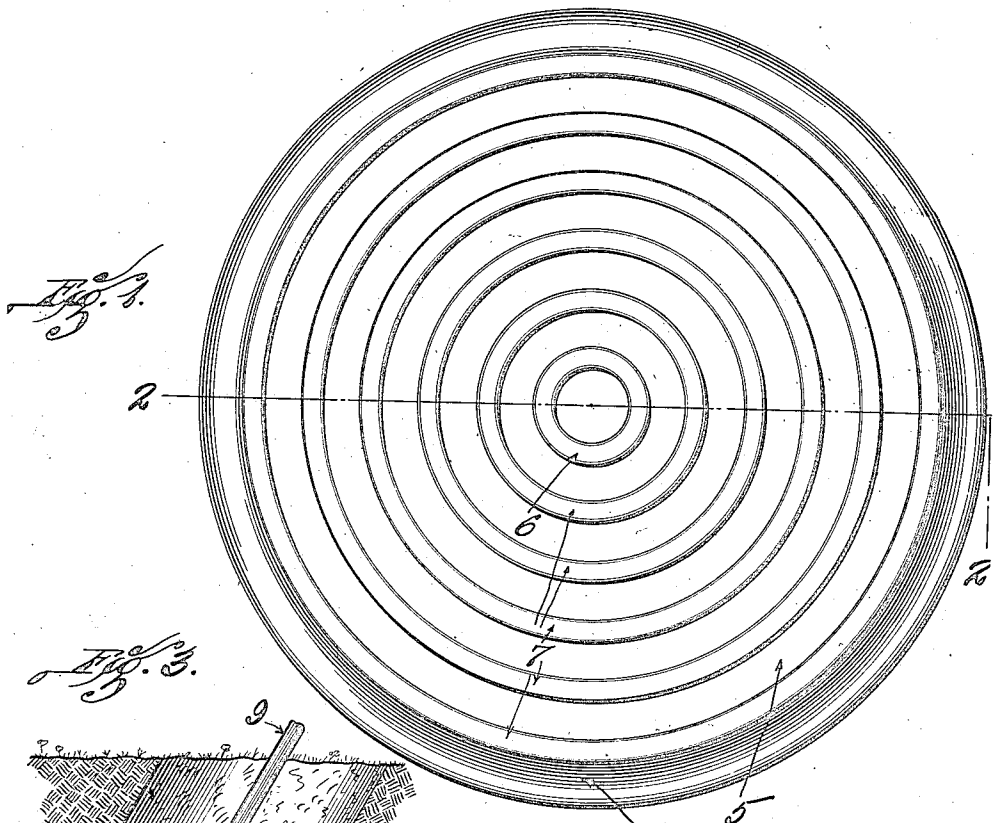


Fig. 1.

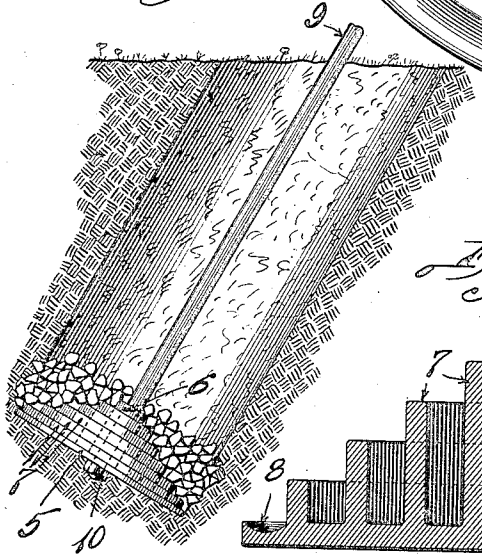


Fig. 3.

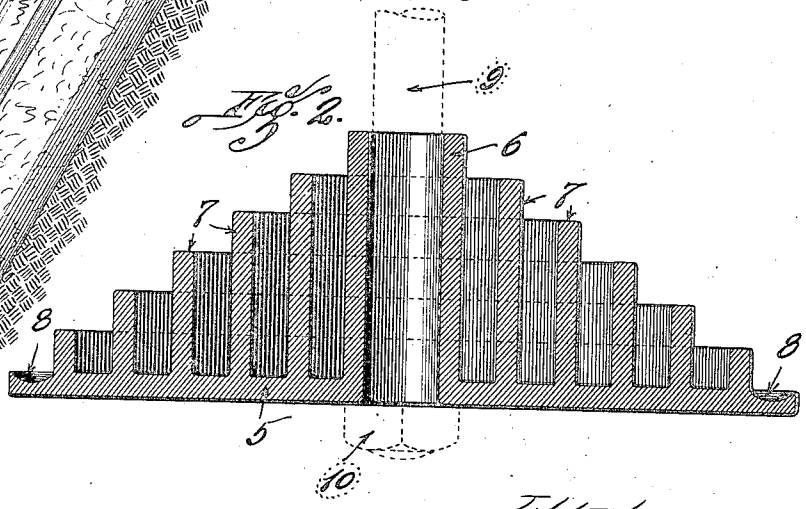


Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

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EARTH-ANCHOR.

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To all whom it may concern:

Be it known that I, JASPER BLACKBURN, a citizen of the United States, and resident of Kirkwood, St. Louis county, Missouri, have invented certain new and useful Improvements in Earth-Anchors, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in earth anchors, and the object of my invention is to provide an improved construction of the inverted cone type of anchor, especial attention being directed toward the construction of the base or bottom of the anchor which is flat in order to avoid a water space, and also in providing a plurality of upwardly projecting concentric rings of varying heights, whose tops form an inclined, broken or interrupted surface over which broken stone is tamped to project into the earth surrounding the bore in which the anchor is inserted in order to obtain a maximum of holding efficiency.

With the above purposes in view my invention consists in certain novel features of construction and arrangement of parts as will be hereinafter described, pointed out in the claims and illustrated by the accompanying drawings, in which—

Figure 1 is a plan of one of my improved anchors; Fig. 2 is a transverse sectional elevation taken on the line 2—2 of Fig. 1; and Fig. 3 is a view on a reduced scale, showing my improved anchor as in use.

Referring by numerals to the accompanying drawings: 5 designates the base or body portion of the anchor which is preferably disk-shape. Formed on the upper surface of the body 5 and preferably cast integral therewith is a sleeve 6. Formed integral with the base is a plurality of concentric ribs 7 which graduate in height, the rib next adjacent the sleeve being the highest. Formed in the upper surface of the disk between the outermost rib 7 and the margin of the disk is a channel 8.

9 designates an ordinary anchor rod, the lowermost end of which is threaded and arranged to be inserted through the sleeve 6.

10 designates a nut which is arranged to secure the anchor to the rod.

In practice this anchor is placed in a bore in the earth usually formed at an incline as shown, the anchor rod having been previously secured to the anchor. The anchor rests in the bottom of the bore, and by reason of the flat bottomed base or body portion there is no water space for water to collect and stand in, which is objectionable for well known reasons. After the anchor has been positioned as just described broken stone or the like is placed upon the anchor and tamped, the terraced conical top of the anchor serving to deflect the stone outwardly to embed in the walls of the bore, part of the stone being pressed into the channels formed by ribs so that the anchor, being held to the mass of stone by reason of said ribs and the mass of stone being embedded in the walls of the bore, will provide a maximum of holding efficiency.

It is to be understood that, after the anchor has been set in position and broken stone or the like tamped thereupon as described, the entire opening or bore is filled in an ordinary manner.

I claim:

1. As a new article of manufacture, an earth anchor, comprising a flat substantially disk-shape base, a sleeve providing means for attaching the anchor to an anchor rod, and a plurality of concentric ribs which vary in height, the innermost rib being higher than the outermost rib.

2. As a new article of manufacture, an earth anchor, comprising a flat substantially disk-shape base, a sleeve providing means for attaching the anchor to an anchor rod, and a plurality of concentric ribs which vary in height, the innermost rib being higher than the outermost rib, and there being a channel formed in the top of the base between the outermost rib and the margin of the base.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

JASPER BLACKBURN.

Witnesses:
E. L. WALLACE,
N. G. BUTLER.