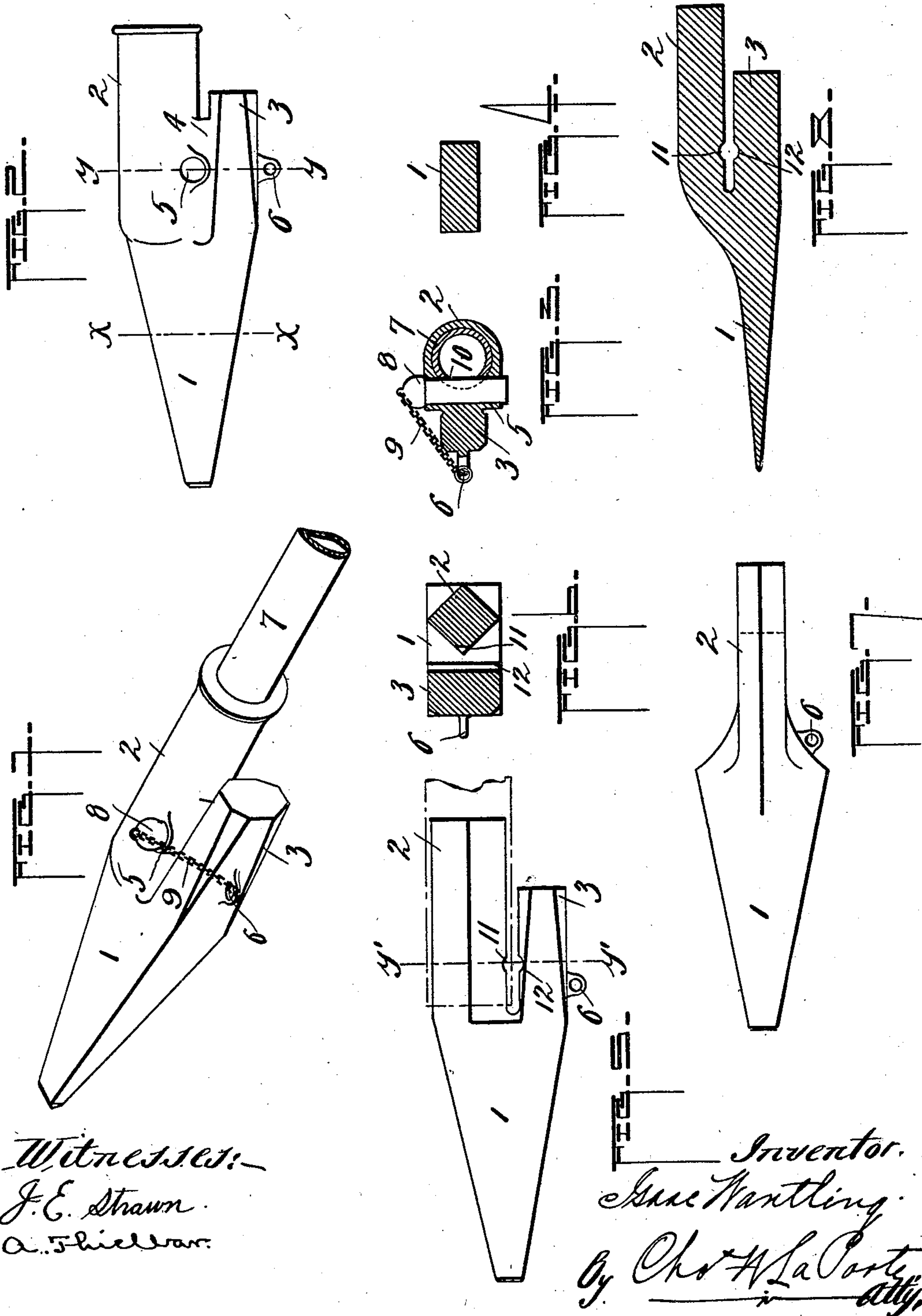


No. 722,778.

PATENTED MAR. 17, 1903.

I. WANTLING.  
ANCHORING DEVICE FOR DRILLING MACHINES.  
APPLICATION FILED SEPT. 5, 1901.

NO MODEL.





# UNITED STATES PATENT OFFICE.

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PORATION OF ILLINOIS.

## ANCHORING DEVICE FOR DRILLING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 722,778, dated March 17, 1903.

Application filed September 5, 1901. Serial No. 74,376. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC WANTLING, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Anchoring Devices for Drilling-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in coal or rock drills wherein a supporting or anchoring device is provided, being novel in construction, durable, and well adapted for the purpose designed.

The object of the invention is an anchor for drilling-machines, to which the forward end of a grip-bar or other machine part may be detachably secured for supporting and anchoring the same to the material to be worked.

The device comprises a wedge portion and parallel extensions of said wedge peculiarly adapted, whereby the wedge may be hammered into the material and secured to the machine parts.

That the invention may be more fully understood, reference is had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view showing my improvement. Fig. 2 is a plan view of the same. Fig. 3 is a cross-section on the line Y Y of Fig. 2, and Fig. 4 is a cross-section on the line X X of Fig. 2. Fig. 5 is a plan of a modified form of anchor, and Fig. 6 is a cross-section on the line Y' Y' of Fig. 5. Fig. 7 is a plan view of a still further modification, and Fig. 8 is a longitudinal section through Fig. 7.

Like numerals refer to corresponding parts throughout the figures, in which the anchor is shown having a flattened wedge or tapered portion 1 rectangular in shape, and 2 and 3 are extended portions of the wedge, lying parallel to each other and joined by a web 4, as shown. The portion 2 is shown tubular in construction, while the portion 3 is shown as an offset or driving portion of polygon shape.

5 is a perforation arranged in the anchor and cuts through a portion of one side of the tubular extension 2 and the web portion 4, and 6 is a loop or ring integral with the side face of the offset, as shown.

7 indicates a bar or rod which may or may not be tubular in cross-section, comprising part of a grip-bar or other machine part arranged to carry operating parts of a drill and which is designed to be detachably secured to the anchor. In this instance the grip bar or rod is inserted into the tubular extension and held firmly therein by means of a pin or similar device 8, attached to the loop 6 of the anchor by a chain 9 by inserting the pin through the perforation 5 in the anchor and causing the same to engage a notch or serration 10 in the bar or rod 7.

In Fig. 5 is illustrated an anchor wherein the extensions 2 and 3 lie parallel and side by side in a horizontal plane similar to extensions in Fig. 1; but the web portion is removed, and the extension 2 may be rectangular in shape, as shown, or other desired formation, and solid or not, but is adapted to carry a grip-bar or machine part by the same being telescoped onto the extension, as shown in dotted lines. The matching faces of the extensions are provided with matching semicircular grooves 11 and 12 to accommodate the pin 8, which is dropped into the grooves and through a serration of the grip-bar to retain it in position.

In Fig. 7 the arrangement of the extensions of the wedge are slightly modified over the two former described, wherein the extension 3 is shown as a reduced rounded rear extension of the wedge and the extension 2 is shown slightly longer and lying in a plane parallel with and above the same and tapers off and forms a part of the wedge portion 1, and at a suitable point on the extensions their matching faces are provided with semicircular notches or grooves 11 and 12, together forming parts of a complete circular perforation. In this device, as in the one illustrated in Fig. 5, it is intended to slide the end of the grip-bar or machine part over the extension 3 and lock the parts substantially as in the manner shown in Fig. 5 or Fig. 1. This



application of an anchor illustrates several methods of arranging the hammer portion of the wedge and the parts to which the grip-bar or machine parts may be located, either  
5 by inserting the same into an extension of the wedge or over the same and lock the parts together.

I am aware of several devices which are used for anchoring machine parts of a drill  
10 to, but am not aware of a device embodying the arrangement and combination of parts and locking means substantially as shown and described, to which a grip-bar or other machine part of a mining-machine may be as  
15 rigidly and yet as easily detachably secured to an anchoring device.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

20 An anchoring device for drilling-machines,

comprising a member having a tapered body and a reduced rear body thereof, a supplemental extension of the tapered body either of circular or polygon form lying parallel with the reduced body part, a notch or perforation  
25 cutting through a portion of said extension, a machine part arranged to have connection with said extension and provided with a notch in its body arranged to be engaged by a pin or similar device inserted through the notch  
30 or perforation of the extension for retaining the member and machine part in a locked relation, substantially as described.

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

ISAAC WANTLING.

Witnesses:

WALTER H. KIRK,  
CHAS. W. LA PORTE.