

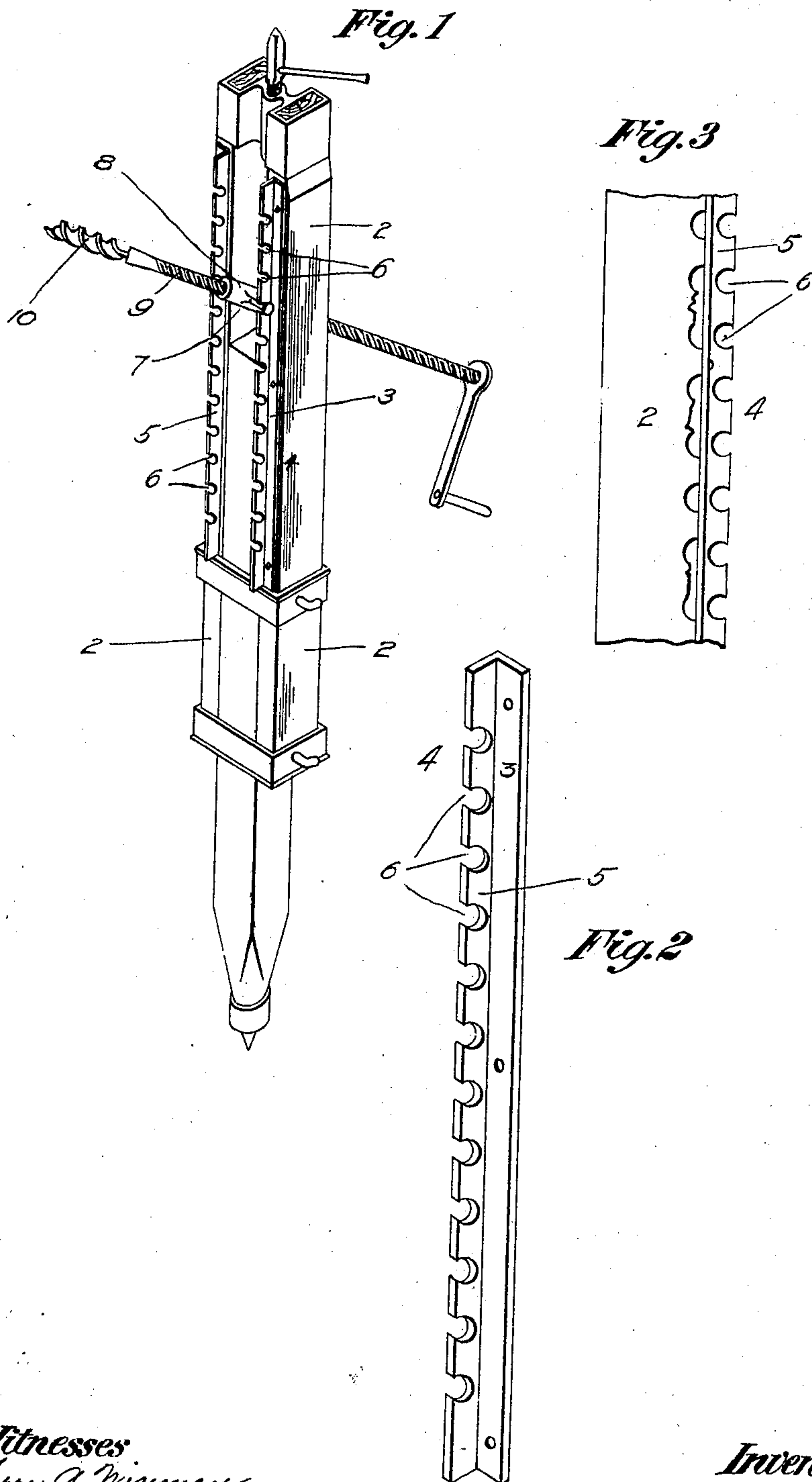
No. 683,193.

Patented Sept. 24, 1901.

C. R. ANDERSON.
COAL AUGER POST.

(Application filed July 18, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

CECIL R. ANDERSON, OF ALLEGHENY, PENNSYLVANIA.

COAL-AUGER POST.

SPECIFICATION forming part of Letters Patent No. 683,193, dated September 24, 1901.

Application filed July 16, 1900. Serial No. 23,704. (No model.)

To all whom it may concern:

Be it known that I, CECIL R. ANDERSON, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Coal-Auger Posts, of which the following is a specification.

In the art of coal-drilling two general styles of coal-auger posts are used—namely, wood posts and iron posts—and each style has its advantages and disadvantages as compared with the other. While iron posts are generally more durable than those constructed of wood, they are more costly and are heavier and more cumbersome to handle. Wear and strains upon machines of this character are very great, and on account thereof and of the extremely rough manner in which they are almost invariably handled by miners the life of a wood post is comparatively short.

Coal-auger posts, whether of wood or iron, consist in part and essentially of two vertical uprights separated to provide space for a screw-box in which the auger feed-bar is mounted and in which it is vertically adjustable to support the auger at required elevation. In the most usual form of wood post this adjustment is secured by forming the vertical edges of the uprights with semicircular notches in which the trunnions of the feed-bar box are held in position by back pressure of the auger. Posts of this type are shown in patent to X. Kern, Jr., No 260,030, dated June 27, 1882, and in patent to M. Lally, No. 269,214, dated December 19, 1892. The separated wood uprights of these posts are subjected to great wear and strain and are dependent on their own inherent strength to resist the same. As the grain of the wood extends longitudinally of the uprights, the latter frequently split off in strips between the notches, thus disabling the post adjustment at that point; but wood posts are largely used, owing to their cheapness as compared with iron posts.

Now the object of the present invention is to combine the advantageous features of both styles of posts in an improved post, the first cost of which is little more than the wood post of old style, and also to provide means whereby old-style posts disabled by splitting may be repaired and restored to active service.

Referring to the accompanying drawings, Figure 1 is a perspective view of a coal-auger post constructed in accordance with my invention. Fig. 2 is a detail view of one of the notched metallic strips. Fig. 3 is a detail view of a portion of an old-style post disabled by splitting and repaired by use of my improvement.

The means whereby the post may be lengthened or shortened and the securing means, top and bottom, for holding it in proper position form no part of the present invention, being old and well known in the art, and hence need not be particularly described.

Instead of forming the post-uprights with notches, as heretofore, they are left plain or unbroken from end to end to receive and secure the flat unnotched branches 3 of the elongated right-angle plates or bearing-strips 4. The forwardly-projecting angles or branches 5 of these plates are formed with the corresponding socket-notches 6, which receive and form permanent supports for trunnions 7 of box 8, through which feed-bar 9 of auger 10 operates. The wood uprights are thus relieved of wear, strains, and tendency to split, incident to the wood post of old type. The screw-box is afforded a wide range of vertical adjustment and is sustained in position on the post whether the auger is in action or not.

The improvement is of such nature as to be readily applicable to a notched wood post, it being only necessary to secure the metallic plates or strips to the notched or unnotched edges thereof. In Fig. 3 I illustrate a portion of a wood post split off on the edge between the notches and having my improvement applied thereto, whereby it is restored to service and made stronger than ever. Thus it will be seen that I have combined the lightness and cheapness of the wood post with the strength and durability of the more costly iron post, and the post thus produced compares favorably as to wear and general utility with the perfected iron post. I do not restrict my invention to the exact shape or angle of the plate here shown, as the same may be varied without departing from the spirit of the invention.

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

1. In the art of coal-drilling, and as a new article of manufacture, an elongated metallic plate or strip adapted to be secured to a coal-auger post and having a straight projecting
5 edge adapted to extend beyond the face of the post, said edge being formed with a succession of supporting-points, substantially as shown and described.
2. In the art of coal-drilling, and as a new
10 article of manufacture, the elongated right-angle plate 4, branch 3 of the plate being flat and unnotched and branch 5 formed with notches 6, substantially as shown and described.
- 15 3. In the art of coal-drilling, the combination with a wood post, including essentially two separated uprights, of a pair of elongated metallic plates secured to and projecting from

the longitudinal edges of the wood uprights, said plates being formed with corresponding
20 open transverse notches, substantially as shown and described.

4. In the art of coal-drilling, the combination of a post, and a pair of vertically-elongated right-angle plates secured to and pro-
25 jecting from the post, the projecting edges of the plates being parallel and formed with corresponding trunnion-notches, substantially as shown and described.

In testimony whereof I have hereunto set
3 my hand in presence of two subscribing witnesses.

CECIL R. ANDERSON.

Witnesses:

ALEX S. MABON,
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