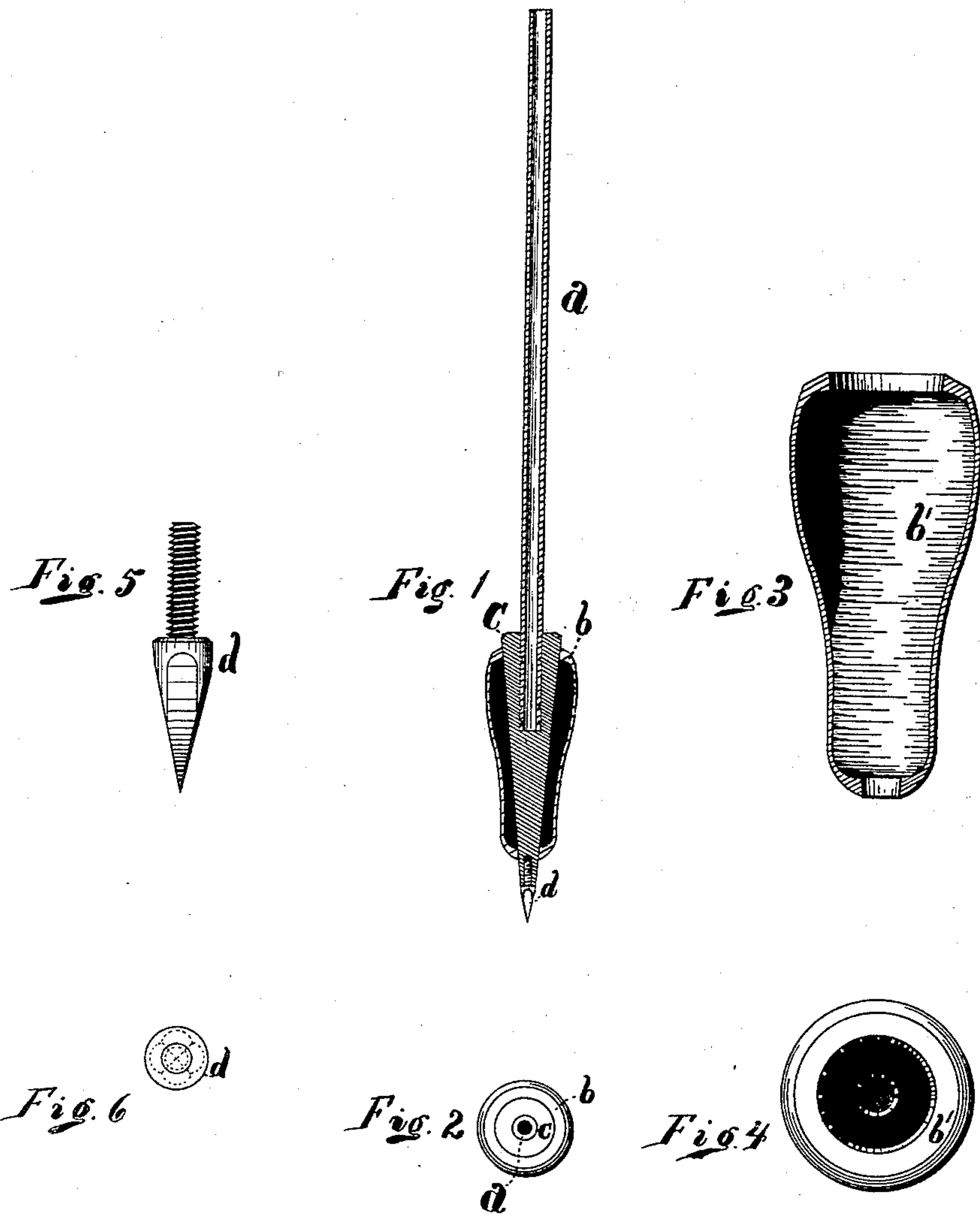


(No Model.)

W. CRONK.
POST AND STAKE BAR.

No. 318,601.

Patented May 26, 1885.



Witnesses.

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WILLIAM CRONK, OF HAVANA, NEW YORK.

POST AND STAKE BAR.

SPECIFICATION forming part of Letters Patent No. 318,601, dated May 26, 1885.

Application filed May 24, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM CRONK, a citizen of the United States, residing at Havana, in the county of Schuyler and State of New York, have invented a useful Improvement in a Combined Post and Stake Bar, of which the following is a specification.

My invention relates to that class of tools used for setting fence-posts, hop-poles, stakes, &c., and is commonly called a "post-bar;" and the objects of my improvements are, first, to provide a combined post and stake bar in one tool; second, to get in making a large hole for fence-posts in hard soil the advantage of making a small hole first, then expanding it by degrees; third, to obtain lightness with sufficient diameter in the tool. I attain these objects by the device illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of entire tool with No. 2 hole-expander attached. Fig. 2 is a plan of entire tool. Fig. 3 is a vertical section of No. 3 hole-expander. Fig. 4 is a full plan view of same. Fig. 5 is a side view of detachable steel point. Fig. 6 is a plan view of same.

Similar letters refer to similar parts throughout the several views.

In making the bar I cut from gas or other pipe the handle *a*, one end of which I place in the mold in such a manner as to cast in line and rigidly about it the conical expander *C*, which I will term "No. 1," which is very tapering to penetrate easily and expand the hole thus penetrated to a size desirable for stake-setting. Into the pointing end of this

No. 1 expander *C*, I insert a steel point, *d*, by screw-thread or other means, whereby it may be taken out and repointed to secure durability and ease in working.

b and *b'* represent a series of independent hole-expanders, which I will term "No. 2" and "No. 3," respectively. These are in form somewhat pear-shaped, and cylindrical shells having a tapering hole through them of right taper to slip upon and tighten upon the cast portion or No. 1 expander *C* of the bar, and to hold the bar steady and get the best effect the diameter of the lower end of each of these expanders should be equal to the diameter of the larger end of the preceding one used.

Post-bars of much weight having a rigid and solid expander have been used; but I am not aware of a light combination-bar having detachable expanders ever having been used.

Having thus fully explained my improvement, what I claim, and wish to secure by Letters Patent, is—

1. In a post and stake bar, the combination of expanders *C* and *b'*, substantially as set forth.

2. The combination, with the expanders *C* and *b*, of the hollow handle *a*, substantially as set forth.

3. In a post and stake bar having detachable expanders, the combination, with the expanders *C* and *b*, of the detachable steel point *d*, substantially as set forth.

WILLIAM CRONK.

Witnesses:

EMMET HORTON,
CHARLES S. HOYT.