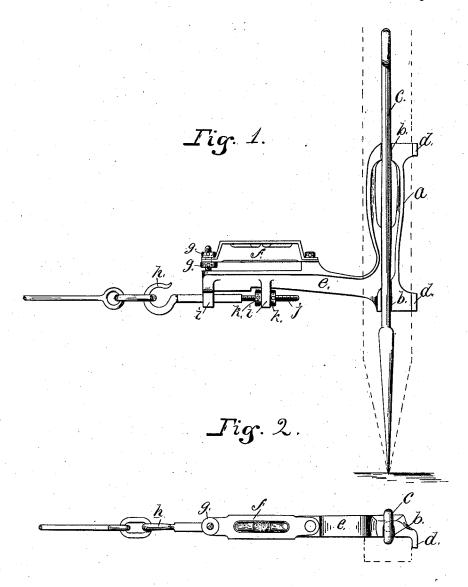
(No Model.)

G. W. DICKINSON.

SURVEYOR'S CHAIN HANDLE.

No. 301,869.

Patented July 15, 1884.



Witnesses.

Jacob W. Loeper,

Inveritor. George W. Dickinson By H. P. Hood Attz.

UNITED STATES PATENT OFFICE.

GEORGE W. DICKINSON, OF CHARLESTON, ILLINOIS.

SURVEYOR'S-CHAIN HANDLE.

SPECIFICATION forming part of Letters Patent No. 301,869, dated July 15, 1884.

Application filed May 3, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. DICKINSON, a citizen of the United States, residing at Charleston, in the county of Coles, State of 5 Illinois, have invented a new and useful Improved Surveyor's-Chain Handle, of which the following is a specification.

My invention relates to an improved handle to be attached to one or both ends of a sur-

10 veyor's chain or measuring-line.

The object of my improvement is to avoid, in the measuring of distances in surveying lands, mistakes arising from the tally-pins out of a true perpendicular, as hereinafter de-15 scribed. I accomplish the above-mentioned object by means of the device illustrated in the accompanying drawings.

Figure 1 is a side elevation of my device.

Fig. 2 is a plan.

a is a handle, having in one side notches b b, adapted to receive sidewise a tally-pin, c, such

as ordinarily used by surveyors.

d d are lugs equidistant from notches b b. and projecting outward from the handle to re-25 ceive the edge of a staff, as shown in dotted lines, the purpose being to apply the handle accurately in line with either a tally-pin or a staff, as may be required.

e is an arm formed integral with handle a, 30 and projecting therefrom at a right angle with

the line of notches b.

f is a spirit-level secured to the upper side of arm e, one end being adjustable relatively to the arm by means of screw-washers g g.

h is a hook adapted to receive the ring on the end of the chain or measuring-line l. Said hook is secured to arm e in such a manner as to be adjustable toward or from the line of notches b. As shown, the hook has a shank passing through lugs i i on the arm, and terminating in a screw, j, on which are screwwashers k k.

In operation one of my improved handles is attached by means of the hook h to each end of the chain or measuring-line, the distance 45 from the end of the chain to the center of notches b being exactly adjusted by means of screw-washers k k to an even number of inches, which distance is considered a part of the length of the chain. One of the handles a is 50 now applied to a staff or tally-pin erected at the point of starting, the edge of the staff resting against the inside of lugs d, or the pin resting in the notches b, and the staff or pin is plumbed by means of the spirit-level f. The 55 person carrying the other end of the measuring-line applies a tally-pin to the notches b in the handle at his end of the line, and holding the pin plumb, as indicated by the spirit-level f, sticks the pin in the ground, thus accurately 60 measuring the distance between the two points.

I claim as my invention—

1. As an article of manufacture, a terminal handle for a measuring-line, consisting of a handle having notches or projecting lugs, 65 whereby it may be accurately applied to and in line with a staff or tally-pin, an arm at a right angle to said handle, a spirit-level on said arm, and means for connecting said arm to the end of a measuring-line, all combined 70 substantially as and for the purpose specified.

2. Handle a, having notches b \overline{b} , arm e, spirit-level f, and adjustable hook h, all combined substantially as and for the purpose

3. Handle a, having notches b b and lugs d d, arm e, level f, and hook h, all combined substantially as and for the purpose specified.

GEORGE W. DICKINSON.

Witnesses:

JNO. A. CHAPMAN, FRANK A. BLACKFORD.