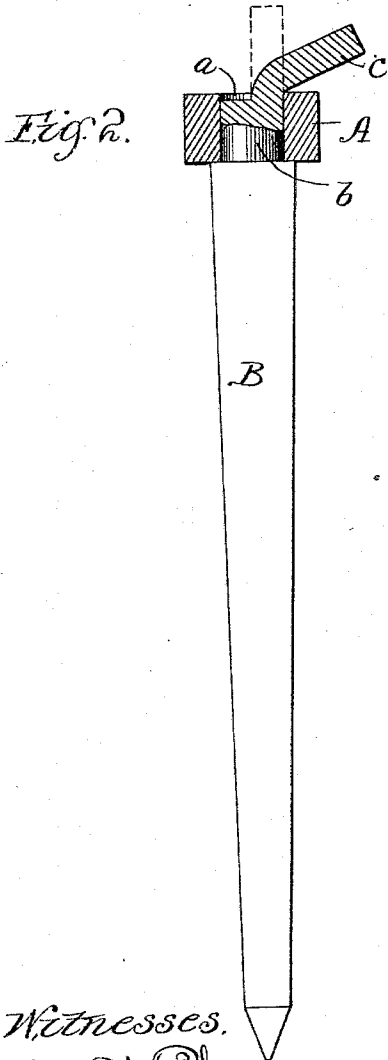
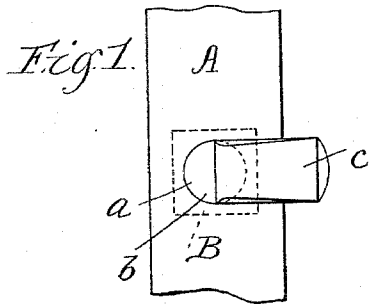


(No Model.)

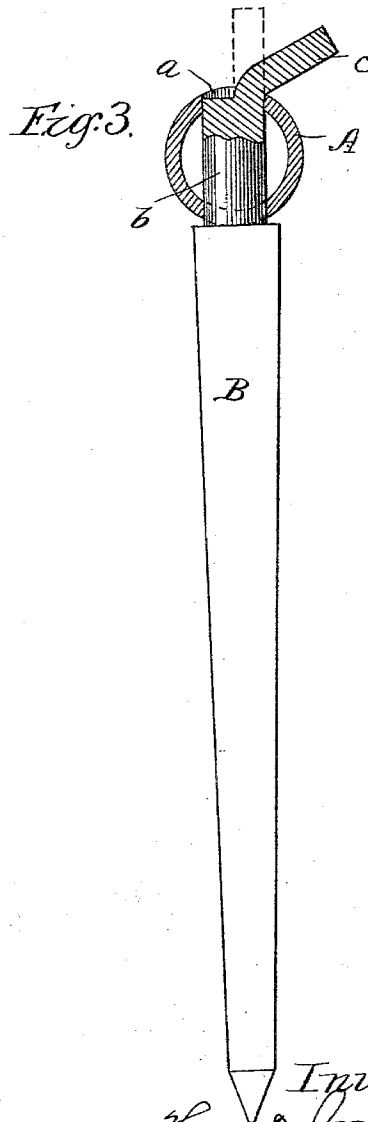
T. D. JONES.
HARROW TOOTH.

No. 562,767.

Patented June 23, 1896.



Witnesses.
Wm. M. Rheem.
J. P. Lumburner.



Inventor
Thos. D. Jones
by *[Signature]* Atty.

UNITED STATES PATENT OFFICE.

THOMAS D. JONES, OF CHICAGO, ILLINOIS, ASSIGNOR TO MARY E. JONES, OF
SAME PLACE.

HARROW-TOOTH.

SPECIFICATION forming part of Letters Patent No. 562,767, dated June 23, 1896.

Application filed February 6, 1896. Serial No. 578,231. (No model.)

To all whom it may concern:

Be it known that I, THOMAS D. JONES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented an Improvement in Harrow-Teeth, of which the following is a specification.

My invention relates to harrows and cultivators; and it consists in an improved tooth therefor, which is adapted for being easily secured in the beams.

In the drawings, Figure 1 is a top view of a harrow beam and tooth, illustrating my invention; Figs. 2 and 3, elevations, partly in section, of the same.

A is a portion of a harrow-beam, which may be solid, as shown in Figs. 1 and 2, or tubular, as in Fig. 3, and which is provided with openings *a* to receive the shanks of the teeth.

B are the teeth. Each of these teeth has a reduced shank *b*, and from each shank there projects a tang *c*. In practice the reduced portion *b* of the tooth should be rather shorter than the thickness of the beam. After the

teeth have been adjusted in the beam by a slight blow the tang is bent over, as shown, and this will draw the shoulder of the tooth tightly set against the under side of the beam, and thus clamp the beam between the tang and shoulder, and yet when a tooth is to be removed it will be only necessary to straighten the tang when the tooth will be free to drop out.

Of course while the tooth may be tempered to any desired degree, the tang must be sufficiently untempered to allow of its being bent, as described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

As a new article of manufacture a harrow-tooth, the shank of which terminates in a reduced tang which is capable of being bent to draw the shank into the beam and secure it there as set forth.

THOMAS D. JONES.

Witnesses:

DYER WILLIAMS,
J. P. LIMEBURNER.