

No. 621,707.

Patented Mar. 21, 1899.

W. J. RENKEN.  
TOOTH HOLDING DEVICE FOR HARROWS.

(Application filed Aug. 30, 1898.)

(No Model.)

Fig. 1.

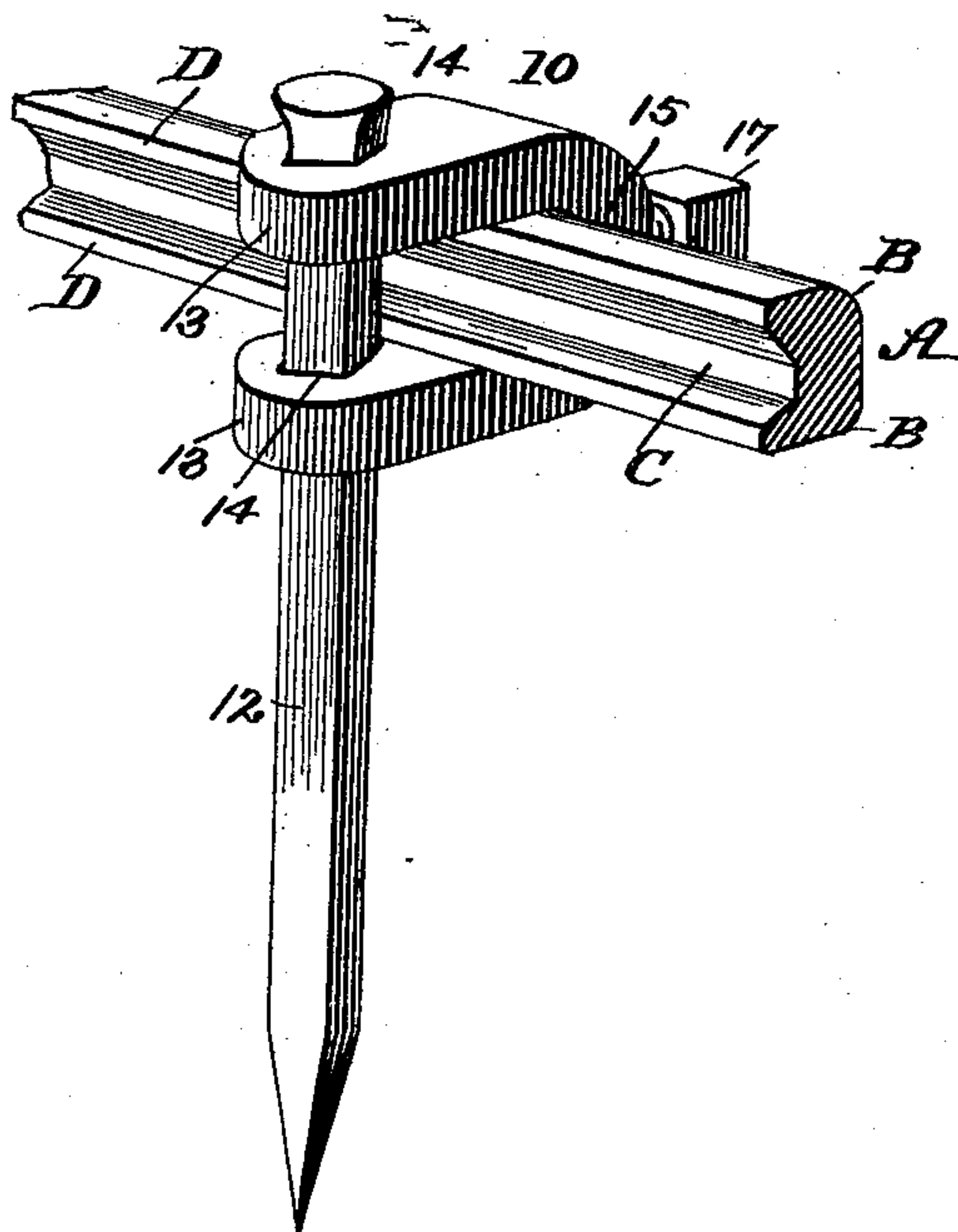


Fig. 2.

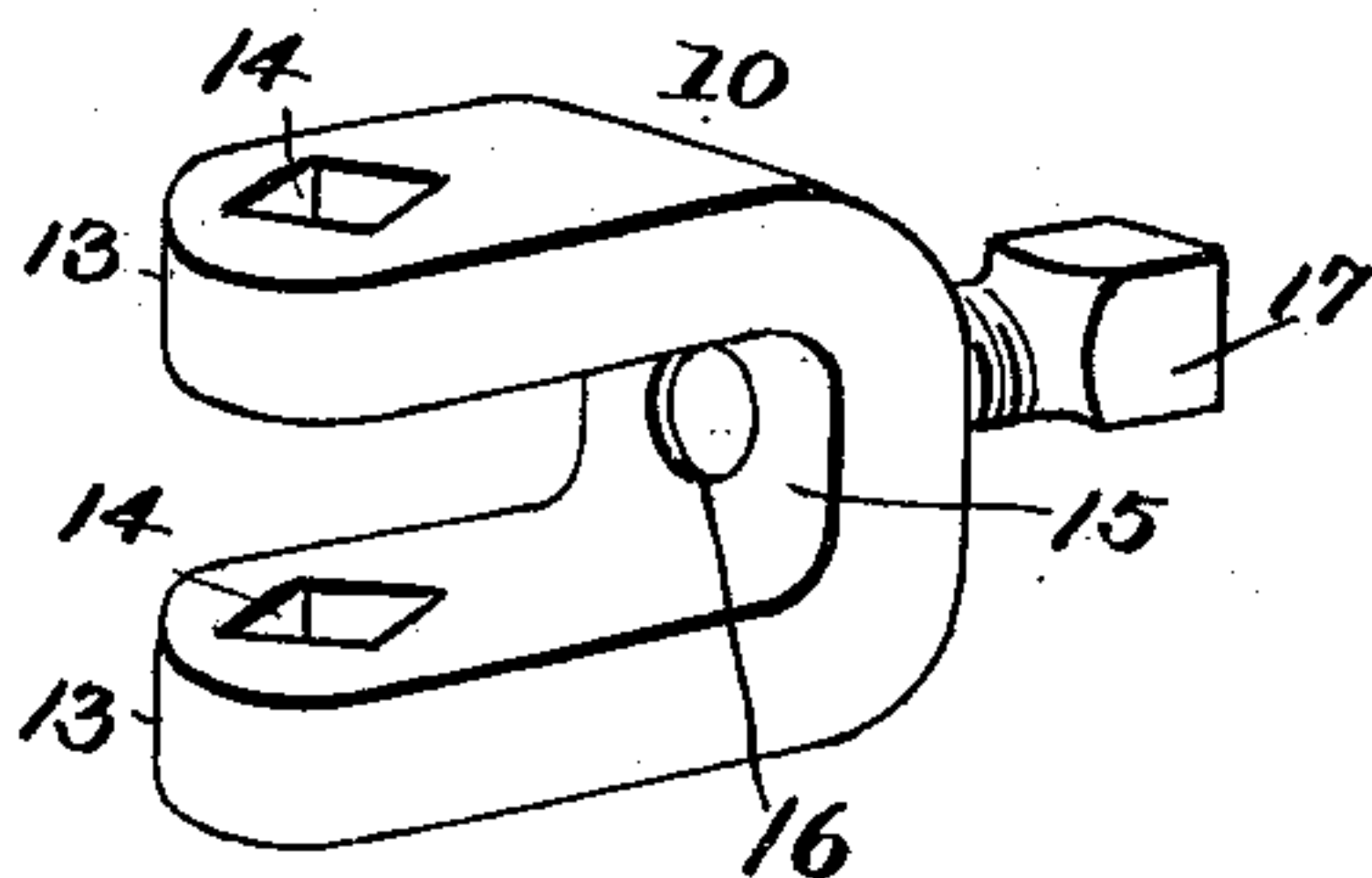
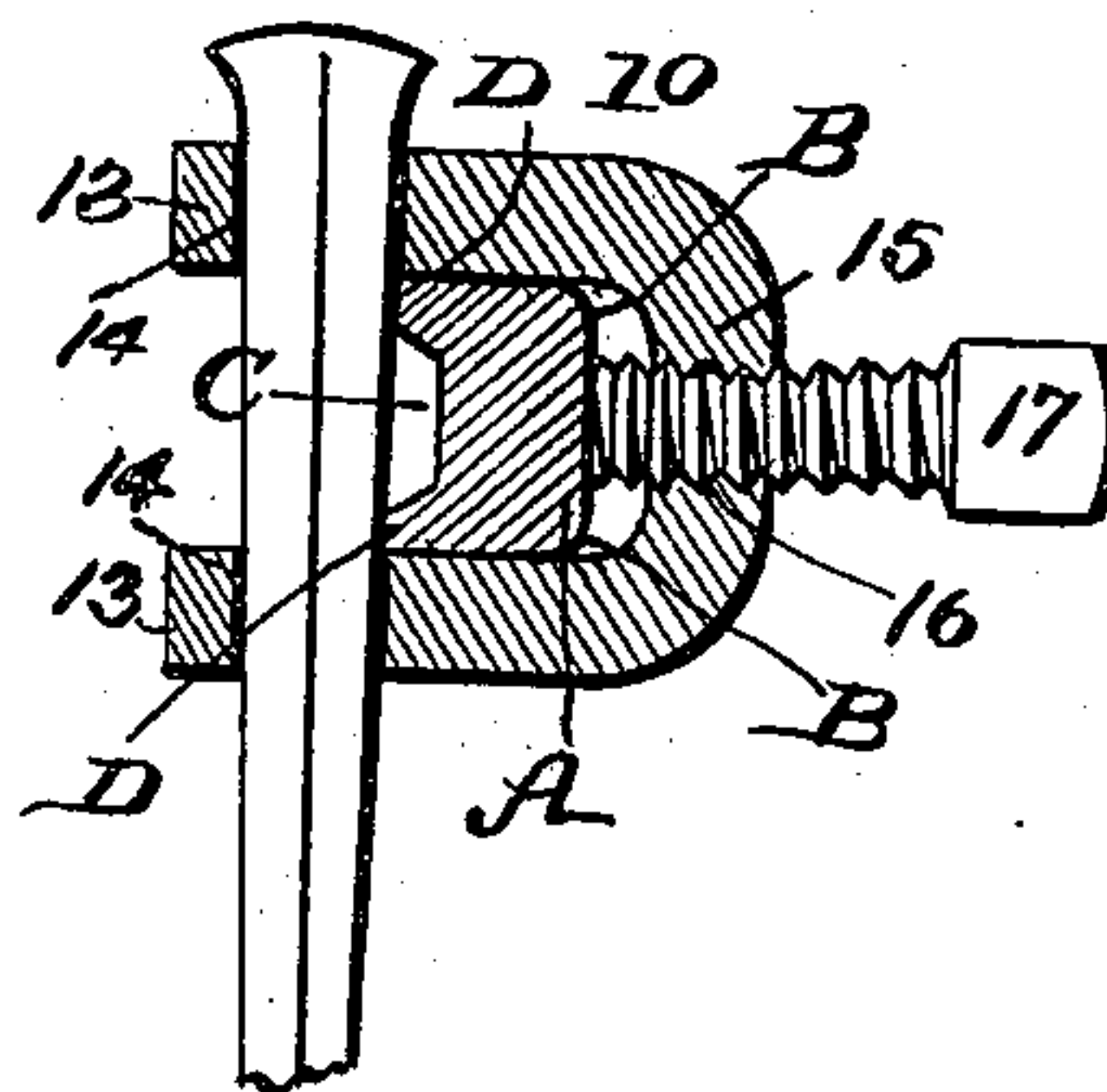


Fig. 3.



WITNESSES:

Jos. A. Ryan  
J. S. Stitt.

INVENTOR

Wilke Jansen Renken.

BY *Munn & Co.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILKE JANSEN RENKEN, OF COATSBURG, ILLINOIS.

## TOOTH-HOLDING DEVICE FOR HARROWS.

SPECIFICATION forming part of Letters Patent No. 621,707, dated March 21, 1899.

Application filed August 30, 1898. Serial No. 689,841. (No model.)

*To all whom it may concern:*

Be it known that I, WILKE JANSEN RENKEN, a citizen of the United States, residing at Coatsburg, in the county of Adams and State of Illinois, have invented a new and useful Improvement in Tooth-Holding Devices for Harrows, of which the following is a specification.

My invention relates to harrows, and has for its object, among others, a device to advantageously hold and clamp the teeth to the harrow-beam, so that they may be conveniently set at any elevation and at any place on the beam without regard to the special construction of the latter.

With this end in view my invention consists of a clamp or holder formed with bifurcated arms, each having an opening there-through to receive the harrow-tooth, a set-screw working in said holder in the rear of the arms and which is adapted to bind the holder at any place on the harrow-beam.

The invention further consists of details of construction and arrangement of the same, which I shall first describe and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a portion of a harrow-beam with my improved device attached thereto. Fig. 2 is a similar view of the holder detached from the beam, and Fig. 3 is a vertical sectional elevation of the device as shown in Fig. 1.

The harrow-beam A is perceptibly rounded on one side, as at B, and provided on its other side with a longitudinally-extending groove C, forming ribs D.

The holder 10 for the tooth 12, which latter is of the usual spike form, is bifurcated to form holding-arms 13, each provided with an opening 14, extending therethrough from top to bottom, said openings being in alinement with each other and adapted to receive and

hold the tooth 12. In its cross-bar or body portion 15 the holder is formed with a threaded aperture 16, in which is arranged to work the set-screw 17. Now it will be seen that when the holder 10, with the harrow-tooth held by the arms 13, is inserted on the beam A, as shown in Fig. 1, it may conveniently be held at any place on said beam by the action of the set-screw 17 binding against the rear face of the beam. It should also be observed that when the set-screw binds against the rear face of the harrow-beam the ribs D are forced tightly against the tooth binding it in arms 13 and that the tooth can thus be held at different elevations with respect to the beam to cut the earth deeply or lightly.

The means hereinbefore described for holding the harrow-tooth to the beam are of cheap and efficient construction, enabling in a simple manner the quick adjustment of the tooth to any point on the beam and also the cutting of a deep or light furrow.

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

The combination with a harrow-beam provided with ribs along its front face, of a tooth-holder consisting of a cross-bar formed with a screw-threaded aperture and arms arranged to embrace the beam, the said arms having openings at their ends for the reception of the harrow-teeth and being of such a length that the beam may have movement back and forth between the tooth and the cross-bar of the holder, and a set-screw working in the aperture in the cross-bar with its end arranged to engage with the rear face of the beam, whereby the beam may be held at different positions within the arms, to engage and hold teeth of different widths, as and for the purpose set forth.

WILKE JANSEN RENKEN.

Witnesses:

C. A. JAMES,

CHARLES M. GILMER.