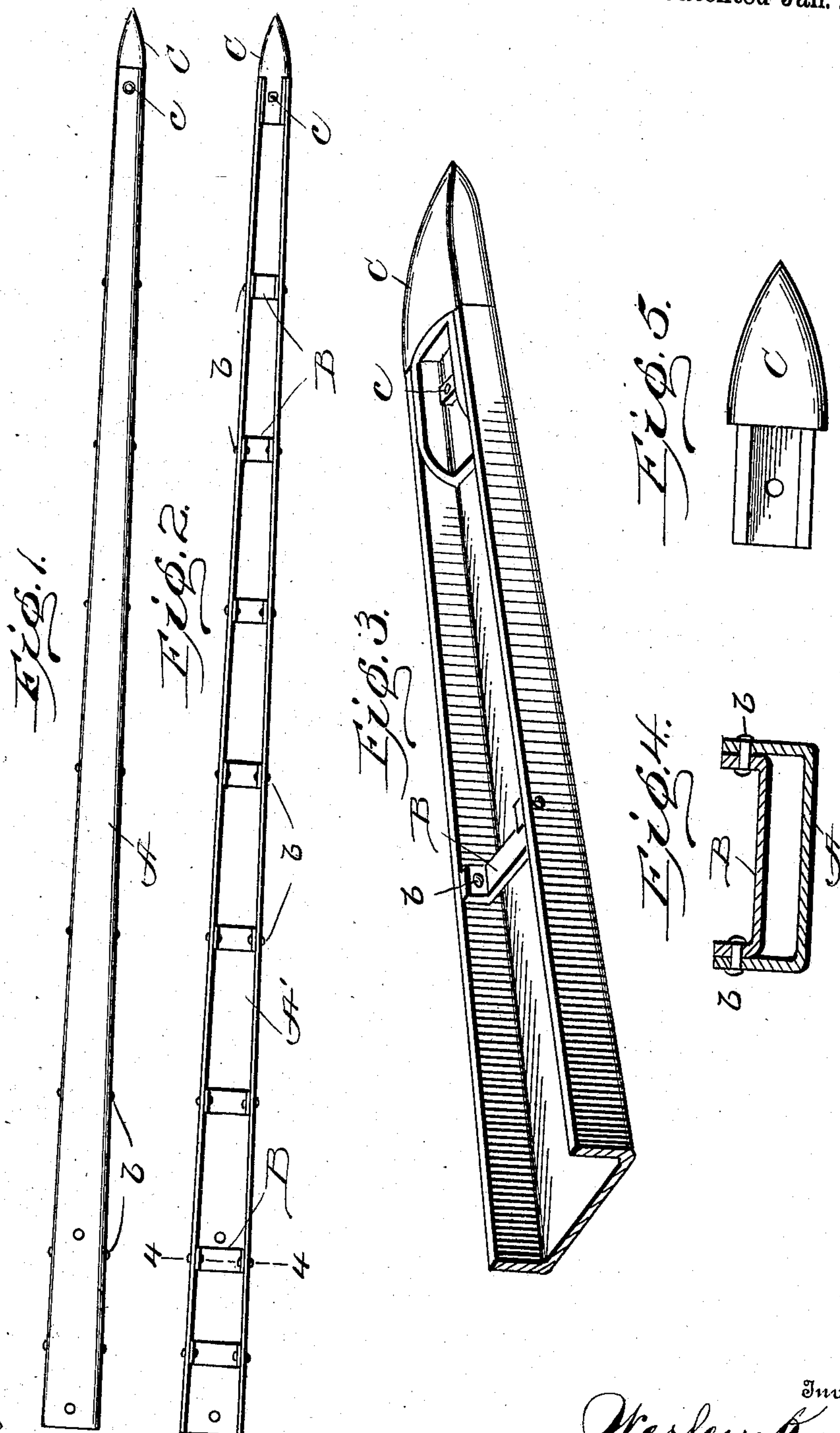


911,017.

W. KOUNS.
STEEL RAKE TOOTH.
APPLICATION FILED MAR. 30, 1908.

Patented Jan. 26, 1909.



Witnesses

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By

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UNITED STATES PATENT OFFICE.

WESLEY KOUNS, OF SALINA, KANSAS.

STEEL RAKE-TOOTH.

No. 911,017.

Specification of Letters Patent.

Patented Jan. 26, 1909.

Application filed March 30, 1908. Serial No. 424,045.

To all whom it may concern:

Be it known that I, WESLEY KOUNS, a citizen of the United States, residing at Salina, in the county of Saline and State of Kansas, have invented certain new and useful Improvements in Steel Rake-Teeth, of which the following is a specification.

My invention relates to a steel tooth for a hay-rake, stacker or loader, and consists in the construction and arrangement of the several parts which will be hereinafter fully described, illustrated in the drawings, and particularly pointed out in the claims.

The object of my invention is to provide a steel tooth which can be made of a particular construction and shape, be strong and durable, and serviceable for carrying large loads and delivering them as required. I preferably make these teeth of #12 gage sheet steel, cut in sections 8 ft. long, 9" wide at the back end and 3" wide at the front end or point. Of course shorter teeth can be made, and if so, the same proportions should be carried out.

In the accompanying drawings forming a part of this application and in which similar parts are represented by like letters, Figure 1 is a plan view of my steel tooth; Fig. 2 is a bottom view of my steel tooth, showing the lower part of the tooth open and the tooth provided with a series of stays or cross pieces for stiffening the tooth, which are riveted to the sides of the tooth. This way of riveting the stays in the tooth is also illustrated in Figs. 3 and 4. Fig. 3 represents part of the tooth with a point attached and shows how these stays are fastened to the tooth and how the point is also fastened to the tooth; Fig. 4 is a cross section of the tooth as shown at 4—4 of Fig. 2. Fig. 5 is the point to be attached to the tooth as shown in Figs. 1, 2 and 3.

In making my steel tooth as above mentioned and as shown in the drawings, I cut the steel sheet in the proportions above mentioned, that is to say, 8 feet long by 9" wide at the back end and 3" wide at the front end.

I bend this sheet of steel over a form, which makes the upper face at the back end and the sides of the tooth 3" wide and the front end 1" wide, a gradual taper from end to end.

I designate the upper face of the tooth as shown in Fig. 1, A; and the lower face of said tooth as well as the sides of the tooth A'. The stays or cross pieces in the tooth, I designate as B, and the rivets and the bolts by which they are secured to the sides of the tooth b. The point of the tooth, I designate as C, and the bolt by which it is secured to the tooth, c. The stays are made of band steel $\frac{1}{8}$ " in thickness and $\frac{7}{8}$ " wide. The point above described and particularly illustrated in Fig. 5, is made of cast malleable iron or steel and is secured to the tooth by a bolt as shown in Fig. 3.

This rake tooth is preferably given a galvanized surface but may be painted or stained in any color or finished as desired.

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

1. In a steel rake tooth, the combination with two sides of equal length and width, of a series of cross stays bolted to the sides and a removable point, substantially as described.

2. The combination with a steel rake tooth formed with closed top and sides and open bottom, of a series of cross stays bolted to the sides, and a cast point bolted to the forward end of said tooth, substantially as described.

3. As an article of manufacture, a channel shaped steel rake tooth made of one piece of sheet steel, bent to form a tapering structure, and provided in the interior hollow space with a series of cross stays bolted to the sides, and having a cast point bolted to the forward end, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses.

WESLEY KOUNS.

Witnesses:

LEON B. STEVENSON,
BROI J. CARLBERG.