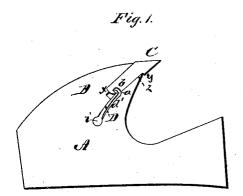
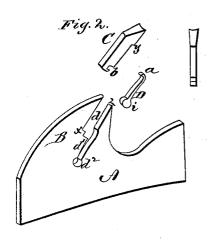
J. R. LUCE. Saw-Teeth.

No.151,407.

Patented May 26, 1874.





WITNESSES.

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UNITED STATES PATENT OFFICE.

JAMES ROOT LUCE, OF STEVENS POINT, WISCONSIN.

IMPROVEMENT IN SAW-TEETH.

Specification forming part of Letters Patent No. 151,407, dated May 26, 1874; application filed November 6, 1873.

To all whom it may concern:

Be it known that I, James R. Luce, of Stevens Point, in the county of Portage and in the State of Wisconsin, have invented certain new and useful Improvements in Saw-Teeth; and do hereby declare, that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

My invention relates to that class of sawteeth which are provided with removable cutting-teeth; and it consists in the means for holding the tooth in the plate, as will be here-

inafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of a part of a circular saw with a plate having a removable cutting-tooth embodying my invention; and Fig. 2 shows the various parts detached, in per-

spective.

A B represent a part of a circular sawplate, formed in any of the known and usual ways. C represents the cutting-tooth, constructed substantially in the manner shown in the drawing, to be inserted in a slot, d, in the plate. In the edges of the tooth C are made curved or V-shaped grooves to fit over the correspondingly-shaped edges of the slot d, so that when the tooth is pressed down in the slot it cannot come out sidewise. The butt of the cutting-tooth C rests against a shoulder, f, formed in the bottom of the slot d. In the under side of the tooth, a suitable distance from the outer end, is formed a

shoulder, y, which, when the tooth is inserted, rests against a point, z, on the saw-tooth. The cutting-tooth C is thus firmly supported in the saw-plate B, and it is held there by the following means: From the bottom or lower end of the slot d extends another slot, d^1 , farther into the saw-plate, and the lower end d^2 of this slot is made round or circular, as shown in Fig. 2. D represents a spring, the outer end of which forms a hook, a, and the inner end forms a rivet, i. This spring is inserted in the slot d^1 , with the rivet i passing through the enlarged part d^2 of the said slot, where it is firmly riveted to the saw-tooth. When the cutting-point C is inserted in the slot d and pressed down, the hook a springs into a notch, b, made in the cutting-point, and holds it firmly in its place.

ly in its place.

To remove the tooth the hook a is sprung, by means of any suitable instrument, out of the notch b, when the point can readily be

pulled out.

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

Patent, is-

The combination of the saw-plate A B, having slots d d, shoulder x, and point z, the removable cutting-tooth C, having notch b and shoulder y, and the spring D, with hook a and rivet i, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of

October, 1873.

JAMES ROOT LUCE.

Witnesses:
A. N. MARE,
JAMES A. FELCH.