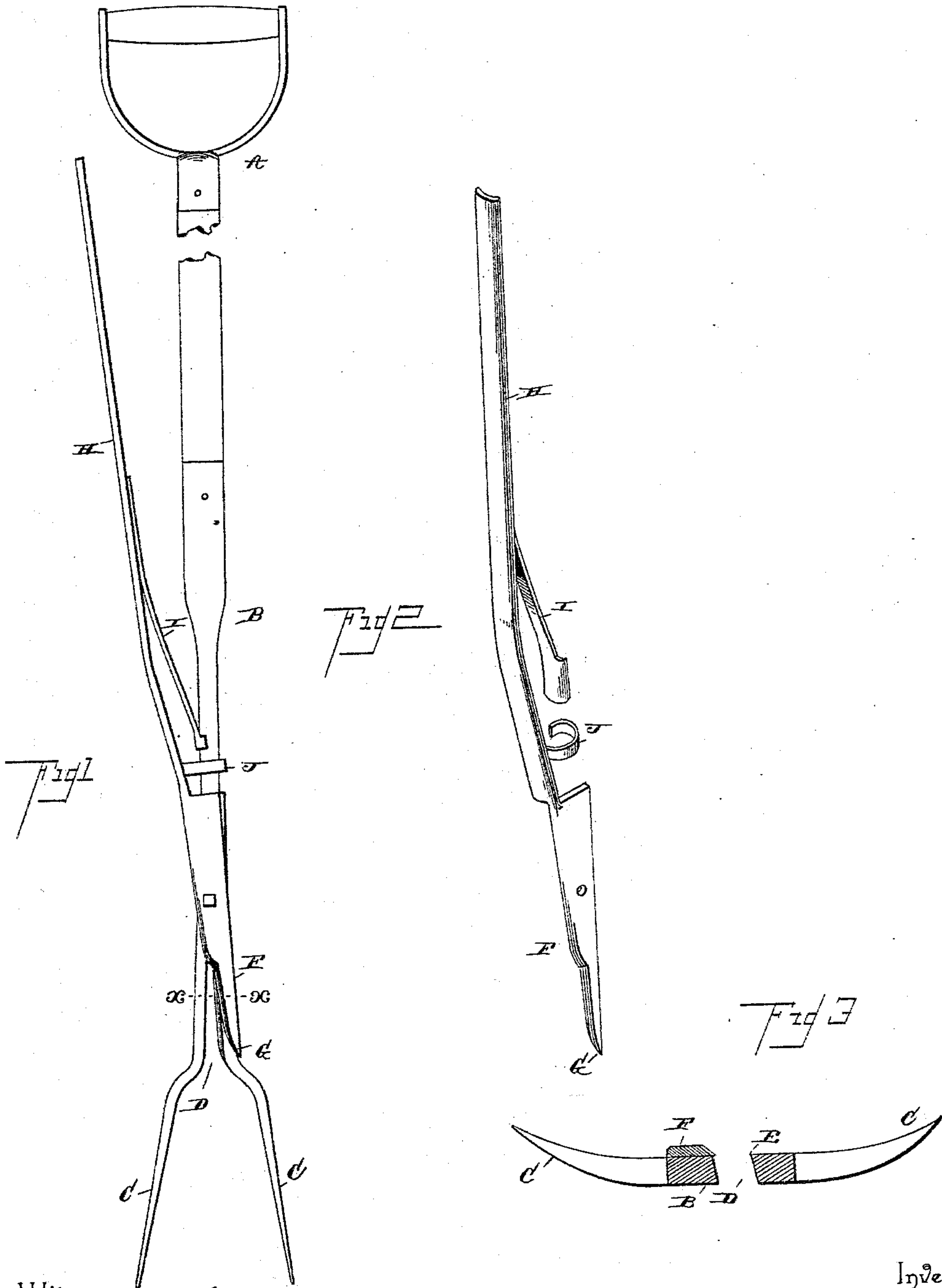


(No Model.)

A. W. STORER.
BAND CUTTER.

No. 414,457.

Patented Nov. 5, 1889.



Witnesses

John Amirie

By his Attorneys,

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UNITED STATES PATENT OFFICE.

ANDREW W. STORER, OF MASON CITY, IOWA.

BAND-CUTTER.

SPECIFICATION forming part of Letters Patent No. 414,457, dated November 5, 1889.

Application filed July 8, 1889. Serial No. 316,759. (No model.)

To all whom it may concern:

Be it known that I, ANDREW W. STORER, a citizen of the United States, residing at Mason City, in the county of Cerro Gordo and State of Iowa, have invented a new and useful Band-Cutter, of which the following is a specification.

My invention relates to improvements in band-cutters; and it consists in certain novel features hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of my improved band-cutter. Fig. 2 is a perspective view of the vibratory knife removed, and Fig. 3 is an enlarged transverse section on the line *x x* of Fig. 1.

In carrying out my invention I employ a pitchfork consisting of the handle A and the casting B, secured to the end of the handle and having the tines C C and the notch D between the tines. The walls of this notch D are inclined, as shown in Fig. 3, so that the upper edge of one wall and the lower edge of the opposite wall will form cutting-edges, as shown at E in Fig. 3.

Upon the casting B, adjacent to the notch D, I pivot the vibratory knife F, the end of which is tapered, as shown at G, so as to enter readily between the band and the bundle, and from its inner or rear end a lever or handle H extends alongside the handle A of the fork, and this lever H is normally pressed outward by a spring I, secured thereto and having its free end bearing on the casting B. The lever is prevented from being thrown too far from the handle A by the hook or eye J, secured thereto and encircling the casing.

In practice the fork is inserted into the bundle so that the band will pass over one of the tines, through the notch D, and under the other tine. As the bundle is delivered to the thrashing-machine, the lever H is pressed toward the handle A, thereby bringing the knife-edge of the vibratory knife against the band, so as to sever it.

From the foregoing description, taken in connection with the accompanying drawings, it will be seen that I have provided a very simple band-cutter, by which the bands will be effectually severed as the bundle is delivered onto the feed-table of a thrashing-

machine, so that the grain can be readily spread. The spring secured to the lever automatically returns the vibratory knife to its initial position after the band has been severed, and the eye secured to the lever and encircling the handle of the fork prevents the knife being thrown so far to one side as to interfere with the insertion of the fork into the bundle. It will be observed that the walls of the notch between the tines of the fork are so shaped as to present cutting-edges, and the vibratory knife acts so that a shearing action is had on the band and the cutting of the same rendered very easy.

The cutter can be readily adapted to a left-handed person by removing the pivot-bolt and then applying the vibratory knife to the under side of the fork and restoring the pivot-bolt, as will be readily understood.

My device is composed of very few parts and is compactly arranged, and its advantages are thought to be obvious. The lever and the knife are formed integral.

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

1. The combination, with the fork having the tines and the notch between the tines, the walls of said notch being formed to provide cutting-edges, of the vibratory knife pivoted on the fork adjacent to the said notch, and means for operating said knife, as set forth.

2. The combination, with the fork having the tines and the notch D between the tines, the walls of said notch presenting the knife-edges E, of the vibratory knife pivoted on the fork adjacent to said notch and having its outer end tapered and having a lever extending from its inner end, and the spring arranged between the said lever and the fork, as set forth.

3. The combination of the fork having the tines and the notch between the said tines having a knife-edge, the knife pivoted on the fork and acting against the walls of the said notch and provided with a lever extending from its inner end, the spring secured to said lever and bearing on the fork, and the eye secured to the lever and encircling the fork, as specified.

4. The combination of the fork having the
tines and the notch D between the tines, the
walls of said notch being sharpened to pro-
vide cutting-edges, and the vibrating knife
5 pivoted on the fork and oscillating over the
notch, the outer end of the knife being ta-
pered, as set forth.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature
in presence of two witnesses.

ANDREW W. STORER.

Witnesses:

C. H. HUGHES,

M. S. SCHERMERHORN.