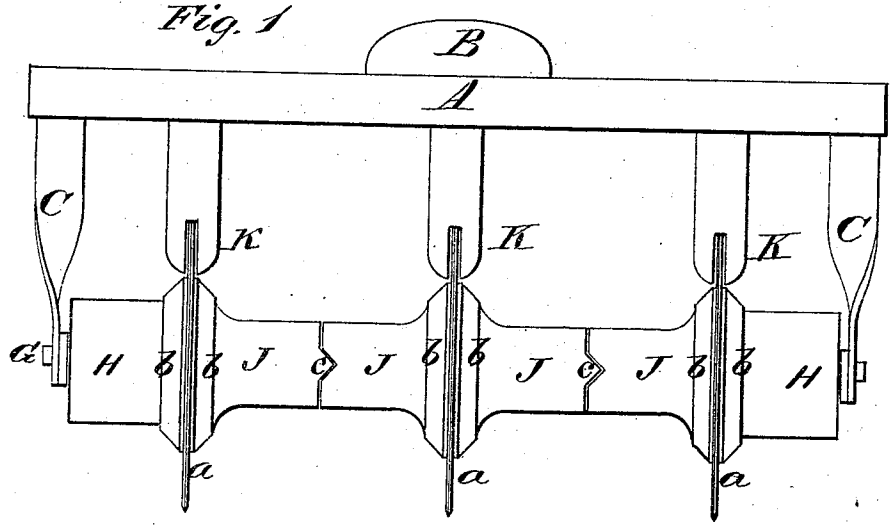
S. BEAN.

Corn-Stalk Cutter.

No. 169,134. Patented Oct. 26, 1875.

Fig. 1



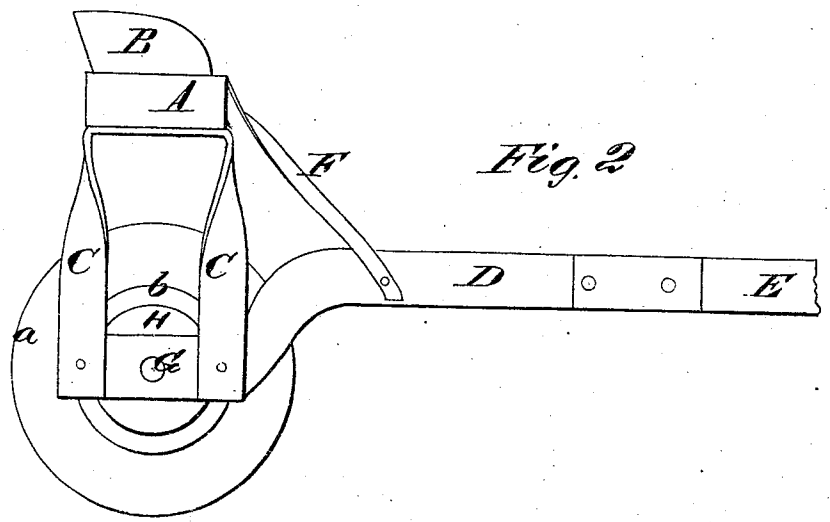
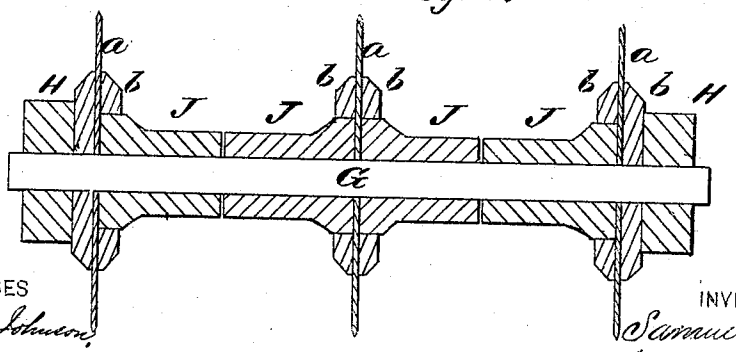


Fig. 2

Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

SAMUEL BEAN, OF CLINTON VALLEY, OHIO.

IMPROVEMENT IN CORN-STALK CUTTERS.

Specification forming part of Letters Patent No. **169,134**, dated October 26, 1875; application filed March 27, 1875.

To all whom it may concern:

Be it known that I, SAMUEL BEAN, of Clinton Valley, in the county of Clinton and State of Ohio, have invented a new and valuable Improvement in Corn-Stalk Cutters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a rear view of my machine, and Fig. 2 is a side elevation of the same. Fig. 3 is a transverse vertical central sectional view.

This invention has relation to machines which are designed for cutting up corn-stalks while lying on the ground in the field; and the nature of my invention consists mainly in interlocking sleeves and clamping-plates for confining rotary cutters on their shaft, in combination with a suitable draft-frame, as will be hereinafter explained; also, in forked clearers, in combination with circular rotating stalk-cutters.

In the annexed drawings, A designates a seat-bar, which may be of any desired length, according to the number of cutters required, on which bar a driver's seat, B, is secured. C C designate the standards at the ends of the bar A, which standards are rigidly secured to this bar, and also to the rear ends of semicircular hounds D, which are rigidly secured to the draft-pole E, and sustained by means of braces F, secured to the front edge and middle of the length of the bar A. G designates an axle, which has its end bearings in the rear portions of the hounds D; and *a a* designate a number of circular cutters, which are made of thin sheet-steel, with sharp edges, and eyes through their centers. J J designate hubs or sleeves, which are made with flanges *b* and interlocking teeth *c* on their ends. The cutters *a* are confined on their axle G, between the flanges *b*, by means of pins passing through these flanges and through the cutters. At the extremities of the axle G cylindrical hubs H H are applied, which are flanged like the sleeves J, and which are held fast on their shaft by means of pins. The sleeves J are rigidly held by their toothed ends interlocking, as shown in Fig. 1, which unite all of the sleeves as though they were of one piece, and at the same time allow the cutters to be removed by simply removing one or the other of the pins after the axle is detached from its standards. K K designate forked clearers, which are rigidly secured to the bar A, and depend therefrom, receiving between their forked ends the cutters *a*. (Shown in Fig. 1.) These clearers remove any adhering clay from the cutters, and prevent them from clogging.

I am aware that a series of hubs having cutting devices, secured to, and rotating with, the shaft of a stalk-cutter, have heretofore been used; and I, therefore, lay no claim, broadly, to such invention.

What I claim as new, and desire to secure by Letters Patent, is—

In a corn-stalk cutter, the series of serrated and flanged sleeves J, and the flanged hubs H, applied on each end of the axle G, in combination with circular cutters *a*, secured substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL BEAN.

Witnesses:

A. CURLES,

G. H. HAINES.